

February 1993

ISSN 0045-7825

CUMULATIVE INDEX OF VOLUMES 1-100

Computer methods in applied mechanics and engineering

CMMECC Cumulative Index

Editors:
J.H. Argyris,
(*Principal Editor*)
Stuttgart, London

T.J.R. Hughes
Stanford, CA

J.T. Oden
Austin, TX



NORTH-HOLLAND

COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING

EDITORS: J.H. ARGYRIS, STUTTGART and LONDON

T.J.R. HUGHES, STANFORD, CA

J.T. ODEN, AUSTIN, TX

W. PRAGER
Founding Editor
(deceased 1980)

EDITORIAL ADDRESSES

John H. ARGYRIS

*Institut für Computer Anwendungen
Pfaffenwaldring 27
W-7000 STUTTGART 80
Germany
(Editorial Office)*

*Department of Aeronautics
Imperial College of Science
and Technology
Prince Consort Road
LONDON S.W. 7
UK*

Thomas J.R. HUGHES

*Division of
Applied Mechanics
Durand Building
Room No. 281
Stanford University
STANFORD
CA 94305-4040, USA*

J. Tinsley ODEN

*TICOM
3500 West Balcones
Center Drive
AUSTIN
TX 78759, USA*

ASSOCIATE EDITORS

K. APPA, *Hawthorne, CA*
I. BABUSKA, *College Park, MD*
A.J. BAKER, *Knoxville, TN*
T. BELYTSCHKO, *Evanston, IL*
L. DEMKOWICZ, *Krakow*
R.E. EWING, *Texas, TX*
M. FEINGOLD, *Marly-le-Roy*

R.H. GALLAGHER, *Potsdam, NY*
R. GLOWINSKI, *Houston, TX*
H.-O. KREISS, *Los Angeles, CA*
J.L. LIONS, *Paris*
H. LOMAX, *Moffet Field, CA*
C.E. MASSONNET, *Liege*

L.S.D. MORLEY, *Farnborough*
K.S. PISTER, *Berkeley, CA*
G. STRANG, *Cambridge, MA*
G.P. VOSKRESENSKY, *Moscow*
W.H. YANG, *Ann Arbor, MI*
O.C. ZIENKIEWICZ, *Swansea*

ADVISORY EDITORS

J.F. ABEL, *Ithaca, NY*
H. ARMEN, *Bethpage, NY*
K.J. BATHE, *Cambridge, MA*
P.G. BERGAN, *Høvik*
J.F. BESSELING, *Delft*
G. BORM, *Karlsruhe*
H. BUFLER, *Stuttgart*
H. CABANNES, *Paris*
C. CANUTO, *Torino*
G.F. CARRIER, *Cambridge, MA*
T. CEBCI, *Long Beach, CA*
A.S.L. CHAN, *London*
J.L. CHENOT, *Valbonne*
H. CHRISTIANSEN, *Provo, UT*
T.J. CHUNG, *Huntsville, AL*
P.G. CIARLET, *Paris*
H. COHEN, *New York, NY*
M.Z. COHN, *Waterloo, Ont.*
J. DONEA, *Ispra*
P.R. EISEMAN, *New York, NY*
B. ENQUIST, *Los Angeles, CA*
C.A. FELIPPA, *Boulder, CO*
K. FENG, *Beijing*
I. FRIED, *Boston, MA*
R.A. GELLATLY, *San Leandro, CA*

M. GERADIN, *Liège*
R. GRUBER, *Manno*
K.K. GUPTA, *Edwards, CA*
R.W. HAMMING, *Monterey, CA*
F.H. HARLOW, *Low Alamos, NM*
E.J. HAUG, *Iowa City, IA*
J.C. HEINRICH, *Tucson, AZ*
M. HOGGE, *Liège*
I. HOLAND, *Trondheim*
C. JOHNSON, *Göteborg*
B.Z. KAPLAN, *Beer-Sheva*
T. KAWAI, *Tokyo*
J. KESTENS, *Brussels*
S.W. KEY, *La Canada-Flintridge, CA*
W.C. KNUDSON, *Sunnyvale, CA*
F.A. LECKIE, *Santa Barbara, CA*
R.W. LEWIS, *Swansea*
K. LINKWITZ, *Stuttgart*
LUO Shi-jun, *Xi'an*
G. MAIER, *Milano*
J.L. MEEK, *St. Lucia, Queensland*
A.J. MORRIS, *Cranfield*
A. NEEDLEMAN, *Providence, RI*
M.P. NIELSEN, *Lynby*
A.K. NOOR, *Hampton, VA*

R. OHAYON, *Châtillon*
P.J. PAHL, *Berlin*
B. PAUL, *Philadelphia, PA*
R. PEYRET, *Nice*
J. PLANCHARD, *Clamart*
A.R.S. PONTER, *Leicester*
QIAN Ling-xi (L.H. Tsien), *Dalian*
A.K. RAO, *Bangalore*
M. REISER, *Rüschlikon*
E. RIKS, *Delft*
P.J. ROACHE, *Albuquerque, NM*
W.P. RODDEN, *La Canada, CA*
G.I.N. ROZVANY, *Essen*
W. SCHIEHLEN, *Stuttgart*
B. SCHÖNUNG, *Baden*
H.R. SCHWARZ, *Zürich*
P.S. SYMONDS, *Providence, RI*
A.B. TEMPLEMAN, *Liverpool*
C.W. TROWBRIDGE, *Kidlington*
J.R. WHITEMAN, *Uxbridge*
K.J. WILLAM, *Boulder, CO*
Y. YAMADA, *Tokyo*
Th. ZIMMERMANN, *Lausanne*

Technical Editor: Ineke KOLEN; Editorial Secretary: Marlies PARSONS

© 1993 Elsevier Science Publishers B.V. All rights reserved.

No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior permission of the publisher, Elsevier Science Publishers B.V., Copyright and Permissions Department, P.O. Box 521, 1000 AM Amsterdam, The Netherlands.
No responsibility is assumed by the Publisher for any injury and/or damage to persons or property as a matter of products liability, negligence or otherwise, or from any use or operation of any methods, products, instructions or ideas contained in the material herein. Although all advertising material is expected to conform to ethical standards, inclusion in this publication does not constitute a guarantee or endorsement of the quality or value of such product or of the claims made of it by its manufacturer.

This volume is printed on acid-free paper.

Published 27 times a year

0045-7825/93/\$06.00

Printed in The Netherlands

COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING

M

ASSOCIATE EDITORS

K. APPA, *Northrop Corporation, Aircraft Division, Dynamics and Loads Research, Dept. 3851/82, One Northrop Avenue, Hawthorne, CA 90250-3277, USA*

I. BABUŠKA, *Institute for Physical Science and Technology, University of Maryland, College Park, MD 20742, USA*

A.J. BAKER, *Department of Engineering Science and Mechanics, University of Tennessee, 317 Perkins Hall, Knoxville, TN 37916, USA*

T. BELYTSCHKO, *Department of Civil Engineering, Technological Institute, Northwestern University, Evanston, IL 60201, USA*

L. DEMKOWICZ, *Institut Mechaniki Budoli, Politechnika Krakowska, ul. Warszawska 24, Krakow, Poland*

R.E. EWING, *Texas A&M University, The Institute for Scientific Computation, 326 Teague Research Center, College Station, Texas 77843-3404, USA*

M. FEINGOLD, *9 Rue Thibault, 78 Marly-le-Roy, France*

R.H. GALLAGHER, *Clarkson University, Potsdam, NY 13676, USA*

R. GLOWINSKI, *Department of Mechanics, University of Houston, 4800 Calhoun Road, Houston, TX 77004, USA*

H.-O. KREISS, *Mathematics, U.C.L.A., Los Angeles, CA 90024-7009, USA*

J.L. LIONS, *Centre National d'Etudes Spatiales, 2, Place Maurice Quentin, 75039 Paris Cédex 01, France*

H. LOMAX, *Computational Fluid Dynamic Branch, National Aeronautics and Space Administration, Ames Research Center, Moffet Field, CA 94035, USA*

C.E. MASSONNET, *Institut du Genie Civil, 6, Quai Banning, Liège, Belgium*

L.S.D. MORLEY, *33 Manor Road, Farnborough, Hants., GU14 7EX, UK*

K.S. PISTER, *College of Engineering, Department of Civil Engineering, Division of Structural Engineering and Structural Mechanics, University of California, Berkeley, CA 94720, USA*

G. STRANG, *Department of Mathematics, Massachusetts Institute of Technology, Cambridge, MA 02139, USA*

G.P. VOSKRESENSKY, *Keldysh Institute of Applied Mathematics, The USSR Academy of Sciences, Miusskaya Sq. 4, Moscow 125047, Russian Federation*

W.H. YANG, *Department of Applied Mathematics and Engineering Science, The University of Michigan, College of Engineering, Ann Arbor, MI 48109, USA*

O.C. ZIENKIEWICZ, *Department of Civil Engineering, University of Swansea, Swansea SA2 8PP, UK*

ADVISORY EDITORS

J.F. ABEL, *Structural Engineering, School of Civil and Environmental Engineering, Cornell University, Hollister Hall, Ithaca, NY 14853, USA*

H. ARMEN, *Grumman Aerospace Corporation, Bethpage, NY 11714, USA*

K.J. BATHE, *Mechanical Engineering Department, Massachusetts Institute of Technology, Cambridge, MA 02139, USA*

P.G. BERGAN, *A.S. Veritas Research, P.O. Box 300, N-1322 Høvik, Norway*

J.F. BESSELING, *Afdeling der Werktuigbouwkunde van de Technische Universiteit, Mekelweg 2, Delft, The Netherlands*

G. BORM, *Institut für Bodenmechanik und Felsmechanik, Universität (TH) Fridericiana Karlsruhe, Postfach 6380, W-7500 Karlsruhe, Germany*

H. BUFLER, *Institut für Mechanik (Bauwesen), Universität Stuttgart, Pfaffenwaldring 7, W-7000 Stuttgart 80, Germany*

H. CABANNES, *Tour 66 - 4ième étage, Université de Paris 6, 4, Place Jussieu, F-75230 Paris, Cedex 05, France*

C. CANUTO, *Politecnico di Torino, Dipartimento di Matematica, Corso Duca degli Abruzzi 24, I-10129 Torino, Italy*

G.F. CARRIER, *Division of Engineering and Applied Physics, Pierce Hall, Harvard University, Cambridge, MA 02138, USA*

T. CEBEKI, *Douglas Aircraft Company, 3855 Lakewood Boulevard, Long Beach, CA 90846, USA*

A.S.L. CHAN, *Department of Aeronautics, Imperial College of Science and Technology, Prince Consort Road, London S.W. 7, UK*

J.L. CHENOT, *ENS, Ecole Nationale Supérieure des Mines de Paris, Centre de Mise en Forme des Matériaux, Sophia Antipolis, F-06560 Valbonne, France*

H. CHRISTIANSEN, *Department of Civil Engineering 368 CB, Brigham Young University, Provo, UT 84602, USA*

T.J. CHUNG, *School of Engineering, Department of Mechanical Engineering, The University of Alabama in Huntsville, Huntsville, AL 35899, USA*

P.G. CIARLET, *Analyse Numérique, Tour 55-65, Université de Paris 6, 4, Place Jussieu, F-75230 Paris, Cedex 05, France*

H. COHEN, *The Alfred P. Sloan Foundation, 630 Fifth Avenue, Suite 2550, New York, NY 10111-0402, USA*

M.Z. COHN, *University of Waterloo, Ontario, Canada*

J. DONEA, *Commission of the European Communities, Joint Research Centre, Ispra Establishment, Applied Mechanics Division, I-21020 Ispra (Varese), Italy*

P.R. EISEMAN, *Department of Applied Physics and Nuclear Engineering, Columbia University, New York, NY 10027, USA*

B. ENGQUIST, *Department of Mathematics, University of California, Los Angeles, CA 90024, USA*

C.A. FELIPPA, *Center for Space Structures and Controls, Campus Box 429, University of Colorado, Boulder, CO 80309-0429, USA*

K. FENG, *Chinese Academy of Sciences, Computing Center, P.O. Box 2719, Beijing 100080, People's Republic of China*

I. FRIED, *Department of Mathematics, College of Liberal Arts, Boston University, Boston, MA 02215, USA*

R.A. GELLATLY, *Physics International Company, 2700 Merced Street, San Leandro, CA 94577, USA*

M. GERADIN, *L.T.A.S., Dynamique des Constructions Mécaniques, Université de Liège, Rue Ernest Solvay 21, B-4000 Liège, Belgium*

R. GRUBER, *Gruppo Applicazione Scientifica della Svizzera (GASS), Centro Svizzero di Calcolo Scientifico (CSCS), Via Cantonale, CH-6928 Manno, Switzerland*

K.K. GUPTA, *Mail Stop OFDD, NASA Dryden Flight Research Facility, P.O. Box 273, Edwards, CA 93523, USA*

R.W. HAMMING, *Code 52 Hg, Department of Computer Science, Naval Postgraduate School, Monterey, CA 93940, USA*

F.H. HARLOW, *University of California, Los Alamos Scientific Laboratory, P.O. Box 1663, Los Alamos, NM 87544, USA*

E.J. HAUG, *The University of Iowa, Center for Simulation and Design Optimization, Center for Computer Aided Design, College of Engineering, Iowa City, IA 52242, USA*

J.C. HEINRICH, *College of Engineering and Mines, Aerospace and Mechanical Engineering Department, University of Arizona, Aero Building 16, Tucson, AZ 85721, USA*

M. HOGGE, *L.T.A.S., Thermomécanique, Université de Liège, Rue Ernest Solvay 21, B-4000 Liège, Belgium*

I. HOLAND, *Institutt for Statikk, Norges Tekniske Høgskole, N-7034 Trondheim - NTH, Norway*

C. JOHNSON, *Department of Mathematics, Chalmers Institute of Technology, S-412 96 Göteborg, Sweden*

B.Z. KAPLAN, *Department of Electrical Engineering, Ben-Gurion University of the Negev, P.O. Box 653, Beer-Sheva 84 105, Israel*

T. KAWAI, *Institute of Industrial Science, University of Tokyo, 22-1, Roppongi, 7 chome, Minato-ku, Tokyo 106, Japan*

J. KESTENS, *23 Avenue du Maréchal, B-1180 Brussels, Belgium*

S.W. KEY, *KEY Associates, 109 West Inverness Drive, La Cañada-Flintridge, CA 91011, USA*

W.C. KNUDSON, *Lockheed Missile and Space Company, Inc., P.O. Box 3504, 0/81-12, Bldg. 157-5E, Sunnyvale, CA 94088-3504, USA*

F.A. LECKIE, *Department of Mechanical Engineering, University of California at Santa Barbara, Santa Barbara, CA 93106, USA*

R.W. LEWIS, *Department of Civil Engineering, University College of Swansea, Applied Science Building, Singleton Park, Swansea SA2 8PP, UK*

K. LINKWITZ, *Institut für Anwendungen der Geodäsie im Bauwesen, Universität Stuttgart, Keplerstr. 10, W-7000 Stuttgart 80, Germany*

LUO Shin-jun, *North-Western Polytechnical University, Xi'an, People's Republic of China*

G. MAIER, *Istituto di Scienza e Tecnica delle Costruzioni, Politecnico di Milano, P. Za. Leonardo da Vinci 32, I-20133 Milano, Italy*

J.L. MEEK, *University of Queensland, St. Lucia, Queensland 4067, Australia*

A.J. MORRIS, *College of Aeronautics, Cranfield Institute of Technology, Cranfield, Bedford MK43 0AL, UK*

A. NEEDLEMAN, *Division of Engineering, Brown University, Providence, RI 02912, USA*

M.P. NIELSEN, *Structural Research Laboratory, Technical University of Denmark, Lundtoftevej 100, Bygning 118, DK-2800 Lyngby, Denmark*

A.K. NOOR, *University of Virginia, Langley Research Center, Hampton, VA 23665, USA*

R. OHAYON, ONERA, B.P. 72, 29, Ave. de la Division Leclerc, F-92322 Châtillon Cedex, France

P.J. PAHL, Technische Universität Berlin, Institut für Allgemeine Bauingenieurmethoden, Strasse des 17. Juni 135-EB433, W-1000 Berlin 12, Germany

B. PAUL, University of Pennsylvania, Civil and Urban Engineering, Mechanical Engineering and Mechanics, Philadelphia, PA 19104, USA

R. PEYRET, Département de Mathématiques, Université de Nice, Parc Valrose, 06034 Nice Cédex, France

J. PLANCHARD, Département M.M.N., Electricité de France, 1, Avenue du General de Gaulle, F-92141 Clamart, France

A.R.S. PONTER, Department of Engineering, University of Leicester, University Road, Leicester LE1 7RH, UK

QIAN Ling-xi (L.H. Tsien), Dalian Institute of Technology, Dalian 116024, People's Republic of China

A.K. RAO, Indian Institute of Science, Department of Aeronautical Engineering, Bangalore-12, India

M. REISER, IBM Research Laboratory Zürich, Säumerstrasse 4, CH-8803, Rüschlikon, Switzerland

E. RIKS, Faculty of Aerospace Engineering, Delft University of Technology, P.O. Box 5858, 2600 GB, Delft, The Netherlands

P.J. ROACHE, Ecodynamics Research Associates, Inc., P.O. Box 8172, Albuquerque, NM 87198, USA

W.P. RODDEN, 255 Starlight Crest Drive, La Canada, CA 91011; USA

G.I.N. ROZVANY, Fachbereich Bauwesen, Universität Essen, Postfach 10 37 64, W-4300 Essen 1, Germany

W. SCHIEHLEN, Institut B für Mechanik, Universität Stuttgart, Pfaffenwaldring 9, W-7000 Stuttgart 80, Germany

B. SCHÖNUNG, ABB Turbo Systems AG, Abteilung Forschung und Entwicklung, Thermische Maschinen (ZXE), CH-5401 Baden, Switzerland

H.R. SCHWARZ, Wieslacher 9, CH-8053, Zürich, Switzerland

P.S. SYMONDS, Department of Engineering, Brown University, Providence, RI 02912, USA

A.B. TEMPLEMAN, Department of Civil Engineering, University of Liverpool, P.O. Box 147, Liverpool L69 3BX, UK

C.W. TROWBRIDGE, Vector Fields Limited, 24 Bankside, Kidlington, Oxon OX5 1JE, UK

J.R. WHITEMAN, Institute of Computational Mathematics, Brunel University, GB-Uxbridge, Middlesex UB8 3PH, UK

K.J. WILLAM, Department of Civil Engineering, University of Colorado, Campus Box 428, Boulder, CO 80309, USA

Y. YAMADA, NAPRA, 5-29-313, Akasaka 9 Chome, Minato-ku, Tokyo 107, Japan

Th. ZIMMERMANN, Institut d'Economie et Aménagements Energetiques (IENER), Ecole Polytechnique Fédérale de Lausanne, CH-1015 Lausanne, Switzerland

M
L
0
2
02
I

COMPUTER METHODS in APPLIED MECHANICS AND ENGINEERING

EDITORS

J.H. ARGYRIS (Principal Editor)
*Institut für Computer Anwendungen
Pfaffenwaldring 27
W-7000 STUTTGART 80
Germany*

or

*Department of Aeronautics
Imperial College of Science and Technology
University of London
Prince Consort Road
LONDON S.W. 7
UK*

T.J.R. HUGHES
*Division of
Applied Mechanics
Durand Building
Room No. 281
Stanford University
STANFORD
CA 94305-4040, USA*

J.T. ODEN
*TICOM
3500 West Balcones
Center Drive
AUSTIN
TX 78759, USA*

Cumulative Index of Volumes 1-100



NORTH-HOLLAND

Amsterdam - London - New York - Tokyo

© 1993 Elsevier Science Publishers B.V. All rights reserved

No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior permission of the publisher, Elsevier Science Publishers B.V., Copyright and Permissions Department, P.O. Box 521, 1000 AM Amsterdam, The Netherlands.

Special regulations for authors - Upon acceptance of an article by the journal, the author(s) will be asked to transfer copyright of the article to the publisher. This transfer will ensure the widest possible dissemination of information.

Special regulations for readers in the USA - This journal has been registered with the Copyright Clearance Center, Inc. Consent is given for copying of articles for personal or internal use, or for the personal use of specific clients. This consent is given on the condition that the copier pays through the Center the pre-copy fee stated in the code on the first page of each article for copying beyond that permitted by Sections 107 or 108 of the U.S. Copyright Law. The appropriate fee should be forwarded with a copy of the first page of the article to the Copyright Clearance Center, Inc., 27 Congress Street, Salem, MA 01970, USA. If no code appears in an article, the author has not given broad consent to copy and permission to copy must be obtained directly from the author. All articles published prior to 1981 may be copied for a pre-copy fee of US \$2.25, also payable through the Center. This consent does not extend to other kinds of copying, such as for general distribution, resale, advertising and promotion purposes, or for creating new collective works. Special written permission must be obtained from the publisher for such copying.

No responsibility is assumed by the Publisher for any injury and/or damage to persons or property as a matter of products liability, negligence or otherwise, or from any use or operation of any methods, products, instructions or ideas contained in the material herein. Although all advertising material is expected to conform to ethical standards, inclusion in this publication does not constitute a guarantee or endorsement of the quality or value of such product or of the claims made of it by its manufacturer.

This volume is printed on acid-free paper.

Printed in The Netherlands

0045-7825/93/\$06.00

Preamble

Retrospective recollection and inspirational outlook

I have been asked by our publishers to contribute a preamble to the Cumulative Index of Volumes 1-100 of our Journal. It is indeed hard to believe that the first number appeared as recently as June 1972, just short of twenty years ago. More astonishing is that in the first two years 1972 and 1973, only one volume could be published in each year. Switching, however, forward to the year 1993, I can inform our readers that 9 volumes will appear. This demonstrates the stormy development that has taken place in the evolution of the main thematic topic of our Journal: the exploration of the computer simulation of complex physical and technical problems. We should remember, however, that the revolution in our thinking processes and their application to problems of industry was initiated as far back as in the closing years of World War II under the impact of the first appearance of electromechanical computing devices in the United Kingdom and the United States and the conception of alternative new formulations of mechanics. But it is equally important to recollect that practically all efforts in the first twenty years or so in engineering computing science (say until 1963 or so) were directed towards the solution of problems in solid mechanics, e.g. those arising in plates, shells, wings, fuselages, etc. But the real revolution was actuated – and this is indeed in general unknown – through the then extremely severe problem of the structural safety of swept-back wings which, for aerodynamic reasons, had to be provided for fighter aircraft under jet propulsion in the last two years of World War II; these combat aircraft were designed for high subsonic speeds. Initial thoughts on a suitable theoretical framework, far removed from the clumsy and inefficient relaxation methods of the late thirties, were first generated in 1944 and led to the birth of the so-called matrix displacement method and the conception of a triangular membrane element (a true *deus ex machina* for swept-back wings, now a standard component of the finite element method) as well as the first matrix software codes in the UK and shortly afterwards (and no doubt independently so) in the USA. Germany did not then participate in this mental revolution. This preoccupation with structural problems, novel and significant as they were in aeronautics, was dictated by the slow speed and restricted memory of the first digital computers. On the other hand, major breakthroughs in the non-linear analysis of structures were already achieved in the late fifties by the inventive definition of a geometrical stiffness – which proved highly successful in instability and large deflection problems – and the concept of initial load or initial strain, which made possible the analysis of structures possessing non-linear material properties, e.g. plasticity, viscosity. Effective solutions to such problems were developed in the late fifties in the UK and the USA. An excellent presentation of the state of the art was given in 1965 at the exhilarating Dayton-Ohio Conference on Matrix Methods in Structural Mechanics organised by John S.

Przemieniecki, which proved a landmark in the development of computer mechanics in the solid domain.

But already in the mid-sixties, the necessity of developing CFD beyond the then available finite difference schemes became increasingly urgent and led to the development of techniques in the subsonic regime mainly based on FEM and BEM. This evolution was activated through the appearance of faster and more powerful digital computers. In particular, machines like the CD 6600 and CD 7600 greatly accelerated the developments and generated a stream of publications towards our Journal.

In the preceding paragraphs, our thoughts were mainly focused on the past history of the Journal. However, a scientific Journal lives and prospers only through daring excursions into novel research activities. In fact, our Journal published in the past years a number of distinguished papers on reentry aerodynamics of space shuttles – but more of this later. Other aerodynamic problems were also discussed.

The preceding remarks were intended to demonstrate how novel fields of research necessitate a continuing realignment of editorial policy. Thus, it may be pertinent to point out that the FEM has conditioned a mental revolution in the transformation of engineering sciences but may at the same time have reached the limits of its applicability in certain areas like CFD, in particular in the presence of turbulence. New simulation techniques and concepts are urgently called for. This is a major challenge to authors and editors alike.

Indeed, we are happy to report that Computational Fluid Dynamics has been a rapidly growing field of scientific and engineering interest over the last twenty years or so. We mentioned above that such developments were closely associated with the availability of even faster and more powerful digital computers. In this evolution, steady-state methods based on potential or stream functions were evolved, using first Cartesian and subsequently body fitted grids. Such formulations were found useful in the application of the finite element method to the elliptic, subsonic regime. Moreover, finite difference and finite volume techniques were developed in the unsteady regime but were essentially restricted to a one-dimensional regime. As a result of the continuously increasing computer power, extensions of FEM permitted the steady and unsteady solution of two-dimensional problems using initially the Euler equations and subsequently also the Navier-Stokes equations. The finite element method has in particular been applied to incompressible and compressible viscous flow. Modifications of the Navier-Stokes equations made it possible to include effects of turbulences via a system of time-averaged equations.

The revolutionary appearance of vector computers in the eighties at last gave us the computing tools to solve two- and three-dimensional problems using increasingly fine grids. Initially, these architectures favoured explicit time-stepping schemes which proved easy to vectorise. Subsequently, new strategies for the vectorisation of solution techniques also improved greatly.

Although first attempts for a direct numerical solution of turbulent flows have been initiated, even the most efficient present day computers are not in a position to compute a fully turbulent flow within a prescribed simple geometry. New simulation techniques and the evolution of parallel computer architectures possessing sophisticated software are required to find a solution to such complex problems. Although the FEM achieved triumphant results for laminar regimes and facilitated the analysis of reentry flights by the incorporation of real gas effects, its scientific limits are clearly discernible as mentioned above. Of course, we have to recognise again that the FEM has achieved very fine results for compressible flow problems in

hypersonic aerodynamics due to its inherent capabilities to handle unstructured meshes and adaptive mesh refinements. Several techniques have been evolved and applied with signal success in the past years. From the mathematical point of view, the FEM undeniably provides a secure philosophical foundation, but in the presence of compressibility, it does not yet permit a consistent application of this fundamental advantageous framework.

Focusing our attention once more on the hypersonic regime, we have to point out another conceptual limitation of present day CFD techniques. Thus, we note that the current FEM applies in the hypersonic regime a linear approximation within each element and consequently provides a solution which does not differ essentially from that of the finite volume technique. At the same time, finite volume and finite difference methods compensate their deficiency in the realm of unstructured meshes and adaptive mesh refinement as well as in the simplicity of boundary conditions by offering in contrast a high sophistication through so-called high resolution schemes. Although successful attempts have been made, the consistent application of such strategies to FEM is by no means straightforward.

To appreciate the complexity and magnitude of the simulation process in the extreme case of hypersonic aerodynamics, consider, for example, a reentry of a space shuttle, including, moreover, dissociation and reassociation processes of the air. Thus, at a first rough estimate at $M = 25$ at an altitude of 75 km, a typical grid of a finite element scheme possesses 589 865 unknowns (symmetrical re-entry manoeuvre). This number is, however, increased to a multiple if the dissociation process as well as the viscous transport processes in the air are included. Let us also admit that this computing simulation is still incomplete if we do not also include the effects of turbulence at least over part of the air stream. Moreover, the above considerations apply strictly to the case of stationary aerodynamics whilst we now have to consider the necessity of a numerical analysis of instationary aerodynamics in which remarkable progress has already been achieved. It is clear from this account that such major tasks cannot be efficiently solved on existing vector supercomputers like the Cray 2 and the NEC machines and their immediate successors but demand parallel computational configurations of the highest sophistication as initiated in the USA, Japan and Europe. It must be admitted, however, that the efficient and philosophically sound design of parallel software is still in its infancy.

Two further examples serve to underline the necessity of such developments. The first refers to superplastic forming processes. The aerospace industry is striving increasingly to produce high-quality component parts, such as satellite tanks, using superplastic forming. On commission from Aerospatiale of France, a novel FEM methodology was evolved in the early eighties specifically for the simulation of superplastic forming processes and has been applied successfully to a number of aerospace structural components. More recent developments realise superplastic forming processes by means of numerical simulation and significantly so by the optimisation of the forming pressure to achieve a minimum processing time as well as the determination of the initial thickness profile of a given sheet for a net-shape forming process. Such simulation processes and other related investigations like those of thermally coupled forging processes may require 50 hours of CPU time on a Cray 2, the turn around time being four or five times larger. The computational effort is similar in the aerothermodynamics of a complete – relatively simple – flying configuration like the Hermes space shuttle. And yet the numerical simulation of combustion processes requires even higher computer capacities, which can only be achieved through highly parallelised novel computer configurations as they are being developed presently.

The aforementioned combustion processes possess an increasingly significant and critical environmental significance. In fact, we are expected to attain higher combustion temperatures in order to improve the combustion processes. The aim is not only an increased energy yield but also a drastic reduction of pollutant emissions. The Swiss firm ELCO Energy Systems, which, together with its European subsidiaries, covers a significant part of the heating and industrial combustion market in Western Europe, sees an obligation to tackle this problem in a fundamental and long-term way. Moreover, it has been recognised that only novel physical and numerical techniques can lead to major innovative results. The set task includes the realistic simulation of combustion processes in turbulent three-dimensional gas and two-phase flows and the optimum conception of the combustion chamber geometry as well as the thermally highly loaded materials. A novel simulation programme is being designed specifically for the exploitation of compact high-performance parallel computers.

The above topic brings us to the evolution of a future computer-based materials science and the provision of new materials like ceramic coatings. Such design tasks can again only be realised with the aid of novel computer simulations. Increased performance of turbine aero engines, for example, can only be attained by higher gas temperatures which exceed the thermal stress capacity of the current turbine blades. To protect such blades, ceramic coatings have to be sprayed onto the surfaces by means of a plasma beam. Due to the production process, the result is a complex material layer structure with porosities, the thermomechanical resistance of which is unknown; yet it is decisive to elucidate and quantify its nature in order to safeguard the service of the component. The same problem also arises in the automotive industry where ceramic-coated lightweight pistons are to be exposed to higher temperatures in the combustion engines. Especially the computer simulation of the coating process on the one hand and the determination of the thermomechanical behaviour of the coating on the other hand necessitate the development of novel computational methods which do not rely only on FEM, but also on alternative simulation (fractal) techniques. Such methods have to account for the statistically random distribution and growth of flaws and fissures as well as the evolution of residual stresses.

Our preamble can only spotlight a few problem areas which have to be solved effectively and economically through the evolution of new simulation techniques and modern parallel computer devices if supported by highly imaginative software. To reflect and propagate such progress remains the noble task of this Journal. We can only hope that a new anniversary like a forthcoming 200th volume will demonstrate that, within a few years, some of our expectations have been fulfilled.

We can only hope that our condensed account will encourage old and new authors alike to partake in this eternal race to a momentary perfection. Inevitably, our survey reflects to a certain extent personal preferences and experiences of the editorial board. In this sense, we selected CFD and pointed out some of its intriguing major problems which demand and have not found yet an advanced application on present day and future computing devices. Similar considerations apply to the computer evolution of materials science. These two domains of CFD and material science associated with an inventive application of parallel devices will certainly occupy this Journal over the next 10 years or so. These scientific aspects also demonstrate how the interests and unsolved problems which occupy the mind of authors and editorial board alike change (and have to change continuously) the scientific orientation of a journal as long as the editorial board is determined to remain at the top of the league.

However, there is still another major field which will occupy us: this concerns the explosively developing theory of chaos and its scientific and industrial applications. That this necessitates a highly sophisticated computer simulation we need not even emphasize. The theory of chaos has emerged with such explosive force and imaginative vigour following the pioneering findings of E.M. Lorenz who wrote a classic paper in 1963 on the evolutions in a Rayleigh-Bénard layer selected to simulate the meteorological response of the atmosphere. This publication demonstrated first that deterministic systems may respond chaotically, this being expressed by the appearance in the phase space of the now famous strange attractors. Indeed, this paper initiated a new era. In fact, many leading physicists but also engineers are of the opinion that the theory of chaos is *the science of the next century*. Clearly, a journal like ours has to direct its attention to this and other novel manifestations of computer science. There is also no doubt that the understanding of chaos will be one of the most significant keys to the unravelling of the mysteries of turbulence. Such research inquiries will lead to new computer simulations, for example in CFD, including ab initio the effects of possible turbulence. We hope that our authors will contribute energetically to such novel scientific findings and publications.

There is no doubt that the FEM proved superior to other techniques in adapting to complex configurations and boundary conditions in physical problems; at the same time, however, the FEM technique involves higher computing times than, for example, the finite difference technique. Thus, we have to realise the verdict of history "*Tá právra þeit*" and the consequent necessity of reassessing past attitudes. We wish our readers the greatest success in helping us to unravel some of the unsolved problems of engineering science.

We on the editorial board have to accept that this necessitates very imaginative efforts, not only on the scientific side. We have to admit that without the devoted support of the members of the confraternity of our publishing editors and of the devoted work of the desk editors of our Publishing House in Amsterdam, such success and speed of action cannot be maintained over long periods of time.

In the course of the 20 years or so, we had the support of an array of superb publishing editors like the then director Wim Wimmers of North Holland and his successors Einar Frederiksson, Arjen Sevenster, Arie Jongejan, Bas van der Hoek, Hans van der Nat and Mark Eligh.

To all those, we express our deeply felt gratitude for their devoted and imaginative support and for having guided the editorial board with such steady hand. Particular thanks are expressed to the magnificent Ineke Kolen who with unflappability and a penetrating mind supports us smoothly in our difficult task. Wim Wimmers, who initiated us in the art of journal publishing, demonstrated to us how such a venture can lead to a steady success in science and engineering and also be economically viable. A special expression of gratitude is also extended to the last two members of the publishing editors Hans van der Nat and Mark Eligh who understood our problems, helped in many difficult situations and also became good friends of the editorial board.

Ultimately, we remember our guardian angel, the editorial secretary Marlies Parsons, who guided us with Swiss clockwork precision through many stormy days.

John Argyris

M

L

0

72

92

H

Cumulative Author Index of Volumes 1–100

1. Abarbanel, S. and M. Goldberg, A test problem for numerical schemes for nonlinear hyperbolic equations 8 (1976) 331– 334
2. Abdullah, A.R. and D.J. Evans, A weighted group explicit method for the diffusion equation 55 (1986) 221– 238
3. Aboudi, J. and Y. Weitsman, A numerical solution for the problem of an impacted fiber-reinforced viscoelastic half-space 4 (1974) 349– 366
4. Aboudi, J. and Y. Benveniste, The nonlinear Lamb problem 6 (1975) 319– 333
5. Aboudi, J., Two-dimensional wave propagation in a nonlinear elastic half-space 9 (1976) 25– 46
6. Aboudi, J., Numerical solution of dynamic stresses induced by moving cracks 9 (1976) 301– 316
7. Aboudi, J., The dynamic stresses induced by moving interfacial cracks 10 (1977) 303– 323
8. Aboudi, J., The dynamic contact stresses caused by the impact of a nonlinear elastic half-space by an axisymmetrical projectile 13 (1978) 189– 204
9. Aboudi, J., The dynamic stresses induced by the propagation of skew cracks 15 (1978) 181– 199
10. Aboudi, J., The dynamic indentation and impact of a viscoelastic half-space by an axisymmetric rigid body 20 (1979) 135– 150
11. Aboulaich, R. and M. Fortin, Iterative methods for the solution of Stokes equations 75 (1989) 317– 324
12. Absi, E. and W. Prager, A comparison of equivalence and finite element methods 6 (1975) 59– 64
13. Achenbach, J.D., G.E. Kechter and Y.-L. Xu, Off-boundary approach to the boundary element methods 70 (1988) 191– 201
14. Adam, J.C., A. Gourdin Serveniere, J.C. Nedelec and P.A. Raviart, Study of an implicit scheme for integrating Maxwell's equations 22 (1980) 327– 346
15. Adin, M.A., D.Z. Yankelevsky and M. Eisenberger, Analysis of beams on bi-moduli elastic foundation 49 (1985) 319– 330
16. Adjedj, G. and D. Aubry, Development of a hierarchical and adaptive finite element software 75 (1989) 153– 165
17. Adjerid, S. and J.E. Flaherty, A moving-mesh finite element method with local refinement for parabolic partial differential equations 55 (1986) 3– 26
18. Agrawal, O.P. and A.A. Shabana, Application of deformable-body mean axis to flexible multibody system dynamics 56 (1986) 217– 245
19. Ahmad-Befrui, B., A.D. Gosman, R.I. Issa and A.P. Watkins, EPISO – An implicit non-iterative solution procedure for the calculation of flows in reciprocating engine chambers 79 (1990) 249– 279
20. Aida, T., Application of extended Galerkin's method to nonconservative stability problems of the columns with thin-walled open cross-section 54 (1986) 1– 20

21. Akhtar, M.N. and P.K. Basu, A new p -version general plate finite element 85 (1991) 219- 236
22. Alart, P. and A. Curnier, A mixed formulation for contact problems prone to Newton like solution methods 92 (1991) 353- 375
23. Alba, R., A. Oliva, C.D. Pérez Segarra and M. Costa, Numerical simulation of the thermal behaviour of heat exchangers and storage devices using multilevel and ADI techniques 91 (1991) 1203-1218
24. Alduncin, G. and I. Herrera, Contribution to free boundary problems using boundary elements: Trefftz approach 42 (1984) 257- 271
25. Alduncin, G., Duality and variational principles of potential boundary value problems 64 (1987) 469- 485
26. Alduncin, G., Subdifferential and variational formulations of boundary value problems 72 (1989) 173- 186
27. Ali, A.H.A., G.A. Gardner and L.R.T. Gardner, A collocation solution for Burgers' equation using cubic B-spline finite elements 100 (1992) 325- 337
28. Al-Khaiat, H., Initial-value analysis of continuous orthotropic plates 69 (1988) 153- 165
29. Alliney, S. and A. Tralli, Extended variational formulations and F.E. models for nonlinear beams under nonconservative loading 46 (1984) 177- 194
30. Alliney, S. and A. Tralli, 'Extended' variational formulations and f.e. models for nonlinear non-conservative mechanical problems 51 (1985) 209- 219
31. Alujevic, A., G. Kuhn and P. Skerget, Boundary elements for the solution of Navier-Stokes equations 91 (1991) 1187-1201
32. Alvarez Vigil, A.E., C. González Nicieza and J.B. Ordieres Meré, Numerical solution of an optimal shape design problem with elastic solids 99 (1992) 147- 170
33. Alvarez-Vazquez, L.J. and P. Quintela-Estevez, The effect of different scalings in the modelling of nonlinearly elastic plates with rapidly varying thickness 96 (1992) 1- 24
34. Amara, M., P. Joly and J.M. Thomas, A mixed finite element method for solving transonic flow equations (see also 39 (1983) 19) 39 (1983) 1- 18
35. Amini, S. and D.T. Wilton, An investigation of boundary element methods for the exterior acoustic problem 54 (1986) 49- 65
36. Amini, S. and P.J. Harris, A comparison between various boundary integral formulations of the exterior acoustic problem 84 (1990) 59- 75
37. Anagnostou, G., E.M. Rønquist and A.T. Patera, A computational procedure for part design 97 (1992) 33- 48
38. Anand, S.C. and R.H.H. Shaw, Use of LST elements in elastic-plastic solutions 15 (1978) 1- 12
39. Anastasselou, E.G. and N.I. Ioakimidis, On the location of straight discontinuity intervals of arbitrary sectionally analytic functions by using complex path-independent integrals 65 (1987) 165- 176
40. Ando, S. and M. Kato, An adaptive method to treat number-sequences occurring in lifting surface calculations 43 (1984) 103- 114
41. Ando, S. and M. Kato, An improved kernel function computation in subsonic unsteady lifting surface theory 49 (1985) 343- 355
42. Andreaus, U. and A. Sawczuk, Deflection of elastic-plastic frames at finite spread of yielding zones 39 (1983) 21- 35

43. Andreaus, U. and P. D'Asdia, Displacement analysis in elastic-plastic frames at plastic collapse 42 (1984) 19- 35

44. Angrand, F. and P. Leyland, Compressible viscous flow simulation by multigrid methods 75 (1989) 167- 183

45. Antoniadis, I. and A. Kanarachos, Decoupling procedures for fluid-structure interaction problems 70 (1988) 1- 25

46. Apelt, C.J. and L.T. Isaacs, On the estimation of the optimum accelerator for SOR applied to finite element methods 12 (1977) 383- 391

47. Appa, K., Recent advances in maneuver loads analysis 90 (1991) 693- 717

48. Argyris, J.H. and D.W. Scharpf, Matrix displacement analysis of shells and plates including transverse shear strain effects 1 (1972) 81- 139

49. Argyris, J.H. and N. Lochner, On the application of the SHEBA shell element 1 (1972) 317- 347

50. Argyris, J.H., P.C. Dunne and T. Angelopoulos, Non-linear oscillations using the finite element technique 2 (1973) 203- 250

51. Argyris, J.H., T. Angelopoulos and B. Bichat, A general method for the shape finding of lightweight tension structures 3 (1974) 135- 149

52. Argyris, J.H., P.C. Dunne, T. Angelopoulos and B. Bichat, Large natural strains and some special difficulties due to non-linearity and incompressibility in finite elements 4 (1974) 219- 278

53. Argyris, J.H. and O.E. Brønlund, The natural factor formulation of the stiffness for the matrix displacement method 5 (1975) 97- 119

54. Argyris, J.H., T.L. Johnsen, R.A. Rosanoff and J.R. Roy, On numerical error in the finite element method 7 (1976) 261- 282

55. Argyris, J.H., G. Faust and K.J. Willam, Limit load analysis of thick-walled concrete structures - A finite element approach to fracture 8 (1976) 215- 243

56. Argyris, J.H., P.C. Dunne, T.L. Johnsen and M. Müller, Linear systems with a large number of sparse constraints with applications to incompressible materials 10 (1977) 105- 132

57. Argyris, J.H., K.S. Pister, J. Szimmat and K.J. Willam, Unified concepts of constitutive modelling and numerical solution methods for concrete creep problems 10 (1977) 199- 246

58. Argyris, J.H., P.C. Dunne, G.A. Malejannakis and E. Schekkle, A simple triangular facet shell element with applications to linear and non-linear equilibrium and elastic stability problems 10 (1977) 371- 403

59. Argyris, J.H., P.C. Dunne, G.A. Malejannakis and E. Schekkle, A simple triangular facet shell element with applications to linear and non-linear equilibrium and elastic stability problems (Continued from 10 (1977) 371-403) 11 (1977) 97- 131

60. Argyris, J.H. and M. Kleiber, Incremental formulation in nonlinear mechanics and large strain elasto-plasticity - Natural approach. Part I 11 (1977) 215- 247

61. Argyris, J.H., L.E. Vaz and K.J. Willam, Higher order methods for transient diffusion analysis 12 (1977) 243- 278

62. Argyris, J.H., P.C. Dunne and M. Müller, Isochoric constant strain finite elements 13 (1978) 245- 278

63. Argyris, J.H., J.S. Doltsinis and M. Kleiber, Incremental formulation in nonlinear mechanics and large strain elasto-plasticity - natural approach. Part II 14 (1978) 259- 294

64. Argyris, J.H., P.C. Dunne and D.W. Scharpf, On large displacement-small strain analysis of structures with rotational degrees of freedom 14 (1978) 401- 451

65. Argyris, J.H., P.C. Dunne, G.A. Malejannakis and D.W. Scharpf, On large displacement-small strain analysis of structures with rotational degrees of freedom (Continued from 14 (1978) 401-451) 15 (1978) 99- 135

66. Argyris, J.H., T.L. Johnsen and H.-P. Mlejnek, On the natural factor in nonlinear analysis 15 (1978) 365- 388

67. Argyris, J.H., P.C. Dunne and M. Müller, Note on large strain applications of modified constant strain finite elements 15 (1978) 389- 405

68. Argyris, J.H., L.E. Vaz and K.J. Willam, Improved solution methods for inelastic rate problems 16 (1978) 231- 277

69. Argyris, J.H., P.C. Dunne, M. Haase and J. Orkisz, Higher-order simplex elements for large strain analysis - natural approach 16 (1978) 369- 403

70. Argyris, J.H., H. Balmer, J.S. Doltsinis, P.C. Dunne, M. Haase, M. Kleiber, G.A. Malejannakis, H.-P. Mlejnek, M. Müller and D.W. Scharpf, Finite element method - the natural approach 17/18 (1979) 1- 106

71. Argyris, J.H., J.S. Doltsinis, W.C. Knudson, L.E. Vaz and K.J. Willam, Numerical solution of transient nonlinear problems 17/18 (1979) 341- 409

72. Argyris, J.H., T.L. Johnsen and H.-P. Mlejnek, On accurate stress calculation in static and dynamic problems using the natural factor approach 19 (1979) 277- 308

73. Argyris, J.H., O. Hilpert, G.A. Malejannakis and D.W. Scharpf, On the geometrical stiffness of a beam in space - a consistent V.W. approach 20 (1979) 105- 131

74. Argyris, J.H. and J.S. Doltsinis, On the large strain inelastic analysis in natural formulation - Part I: Quasistatic problems (Erratum, 21 (1980) 127-128) 20 (1979) 213- 251

75. Argyris, J.H. and J.S. Doltsinis, On the large strain inelastic analysis in natural formulation - Part II. Dynamic problems 21 (1980) 91- 126

76. Argyris, J.H., M. Haase and H.-P. Mlejnek, On an unconventional but natural formation of a stiffness matrix 22 (1980) 1- 22

77. Argyris, J.H., H. Balmer, M. Kleiber and U. Hindenlang, Natural description of large inelastic deformations for shells of arbitrary shape - application of TRUMP element 22 (1980) 361- 389

78. Argyris, J.H., P.C. Dunne, T.L. Johnsen and H.P. Mlejnek, A new iterative solution for structures and continua with very stiff or rigid parts 24 (1980) 215- 248

79. Argyris, J.H. and J.S. Doltsinis, On the natural formulation and analysis of large deformation coupled thermomechanical problems 25 (1981) 195- 253

80. Argyris, J.H. and S. Symeonidis, Nonlinear finite element analysis of elastic systems under nonconservative loading - natural formulation. Part I. Quasistatic problems 26 (1981) 75- 123

81. Argyris, J.H. and S. Symeonidis, A sequel to: Nonlinear finite element analysis of elastic systems under nonconservative loading - natural formulation. Part I. Quasistatic problems 26 (1981) 377- 383

82. Argyris, J.H., K. Straub and S. Symeonidis, Nonlinear finite element analysis of elastic systems under nonconservative loading - natural formulation. Part II. Dynamic problems 28 (1981) 241- 258

83. Argyris, J.H., M. Haase and H.P. Mlejnek, Some considerations on the natural approach 30 (1982) 335- 346

84. Argyris, J.H., J.S. Doltsinis, P.M. Pimenta and H. Wüstenberg, Thermomechanical response of solids at high strains - natural approach 32 (1982) 3- 57

85. Argyris, J.H., K. Straub and S. Symeonidis, Static and dynamic stability of nonlinear elastic systems under nonconservative forces - natural approach 32 (1982) 59- 83

86. Argyris, J.H., An excursion into large rotations 32 (1982) 85- 155

87. Argyris, J.H., J. Szimmat and K.J. Willam, Computational aspects of welding stress analysis 33 (1982) 635- 666

88. Argyris, J.H., B. Boni, U. Hindenlang and M. Kleiber, Finite element analysis of two- and three-dimensional elasto-plastic frames - the natural approach 35 (1982) 221- 248

89. Argyris, J.H. and H.H. Flüh, On the dynamic response of lightweight structures 38 (1983) 347- 369

90. Argyris, J.H. and M. Kleiber, Finite elements in non-associated plasticity - axisymmetric necking in void-containing materials 43 (1984) 325- 347

91. Argyris, J.H., J.S. Doltsinis, P.M. Pimenta and H. Wüstenberg, Natural finite element techniques for viscous fluid motion 45 (1984) 3- 55

92. Argyris, J.H. and J.S. Doltsinis, A primer on superplasticity in natural formulation 46 (1984) 83- 131

93. Argyris, J.H., J.S. Doltsinis, H. Fischer and H. Wüstenberg, *Tà πάντα ρεῖ* 51 (1985) 289- 362

94. Argyris, J. and M. Haase, An engineer's guide to soliton phenomena: Application of the finite element method 61 (1987) 71- 122

95. Argyris, J., H. Balmer and I.S. Doltsinis, Implantation of a nonlinear capability on a linear software system 65 (1987) 267- 291

96. Argyris, J., H. Balmer and I.S. Doltsinis, Some thoughts on shell modelling for crash analysis 71 (1988) 341- 365

97. Argyris, J., I.S. Doltsinis and H. Friz, Hermes space shuttle: Exploration of reentry aerodynamics 73 (1989) 1- 51

98. Argyris, J., I.S. Doltsinis and H. Friz, Studies on computational reentry aerodynamics 81 (1990) 257- 289

99. Argyris, J., H. Balmer and I.S. Doltsinis, A simple but subtle model for the analysis of shell-like structures 85 (1991) 1- 20

100. Argyris, J., M. Haase and J.C. Heinrich, Finite element approximation to two-dimensional sine-Gordon solitons 86 (1991) 1- 26

101. Argyris, J., I.S. Doltsinis and V.D. da Silva, Constitutive modelling and computation of non-linear viscoelastic solids. Part I: Rheological models and numerical integration techniques 88 (1991) 135- 163

102. Argyris, J., I.S. Doltsinis, H. Friz and J. Urban, An exploration of chemically reacting viscous hypersonic flow 89 (1991) 85- 128

103. Argyris, J., G. Faust and M. Haase, *Xάοζ* - An adventure in chaos 91 (1991) 997-1091

104. Argyris, J. and J. Szimmat, An analysis of temperature radiation interchange problems 94 (1991) 155- 180

105. Argyris, J., A. Laxander and J. Szimmat, Petrov-Galerkin Finite Element approach to coupled heat and fluid flow 94 (1992) 181- 200

106. Argyris, J., I.S. Doltsinis and V.D. da Silva, Constitutive modelling and computation of non-linear viscoelastic solids. Part II: Application to PVC-coated fabrics
98 (1992) 159- 226

107. Arminjon, P. and C. Beauchamp, Numerical solution of Burgers' equations in two space dimensions
19 (1979) 351- 365

108. Arminjon, P. and C. Beauchamp, Continuous and discontinuous finite element methods for Burgers' equation (see also 28 (1981) 361-363)
25 (1981) 65- 84

109. Arminjon, P. and A. Rousseau, Discontinuous finite elements and Godunov-type methods for the Eulerian equations of gas dynamics
49 (1985) 17- 36

110. Arminjon, P. and L. Smith, Upwind finite volume schemes with anti-diffusion for the numerical study of electric discharges in gas-filled cavities
100 (1992) 149- 168

111. Arnold, D.N., I. Babuška and J. Osborn, Finite element methods: principles for their selection
45 (1984) 57- 96

112. Arnold, D.N., Mixed finite element methods for elliptic problems
82 (1990) 281- 300

113. Arora, J.S., Analysis of optimality criteria and gradient projection methods for optimal structural design
23 (1980) 185- 213

114. Arora, J.S. and G. Baenziger, Uses of artificial intelligence in design optimization
54 (1986) 303- 323

115. Asaithambi, N.S., On a variable time-step method for the one-dimensional Stefan problem
71 (1988) 1- 13

116. Askar, H.G., Special elements for point singularities
63 (1987) 271- 280

117. Atamian, C., G.V. Dinh, R. Glowinski, J. He and J. Periaux, On some imbedding methods applied to fluid dynamics and electro-magnetics
91 (1991) 1271-1299

118. Athanasiadis, G., Direct and indirect boundary element methods for solving the heat conduction problem
49 (1985) 37- 54

119. Athanasiadis, G., Numerical investigations of direct and indirect integral equations for solving the heat conduction problem
49 (1985) 203- 220

120. Atkinson, C., L.S. Xanthis and M.J.M. Bernal, Boundary integral equation crack-tip analysis and applications to elastic media with spatially varying elastic properties
29 (1981) 35- 49

121. Atkočiūnas, J., A. Borkowski and J.A. König, Improved bounds for displacements at shakedown
28 (1981) 365- 376

122. Atluri, S.N., On constitutive relations at finite strain: Hypo-elasticity and elasto-plasticity with isotropic or kinematic hardening (see also 67 (1988) 125-127)
43 (1984) 137- 171

123. Auerbach, T., J.-P. Gandillon, W. Hälg and J. Mennig, Analytical solution of S_4 -equations in plane geometry
2 (1973) 133- 146

124. Auerbach, T. and J. Mennig, 3-Point Hermite integration of differential equations
76 (1989) 1- 15

125. Aufranc, M., Numerical study of a junction between a three-dimensional elastic structure and a plate
74 (1989) 207- 222

126. Awrejcewicz, J., Nonlinear dynamics of a two-body nonlinear mechanical system
91 (1991) 1093-1108

127. Axelsson, O., A class of iterative methods for finite element equations
9 (1976) 123- 137

128. Axelsson, O. and I. Gustafsson, Iterative methods for the solution of the Navier equations of elasticity
15 (1978) 241- 258

129. Axelsson, O. and I. Gustafsson, An iterative solver for a mixed variable variational formulation of the (first) biharmonic problem 20 (1979) 9- 16

130. Axelsson, O. and G.F. Carey, On the numerical solution of two-point singularly perturbed boundary value problems 50 (1985) 217- 229

131. Axelsson, O. and J. Maubach, On the updating and assembly of the Hessian matrix in finite element methods 71 (1988) 41- 67

132. Baaijens, F.P.T., Numerical analysis of unsteady viscoelastic flow 94 (1992) 285- 299

133. Babarsky, R.J. and H.G. Wood III, Approximate eigensolutions for non-axisymmetric rotating compressible flows 81 (1990) 317- 332

134. Babenko, K.I., Estimating the quality of computational algorithms - Part 1 7 (1976) 47- 73

135. Babenko, K.I., Estimating the quality of computational algorithms - Part 2 7 (1976) 135- 152

136. Babuska, I., J.T. Oden and J.K. Lee, Mixed-hybrid finite element approximations of second-order elliptic boundary-value problems 11 (1977) 175- 206

137. Babuška, I., J.T. Oden and J.K. Lee, Mixed-hybrid finite element approximations of second-order elliptic boundary value problems - Part 2 - Weak-hybrid methods 14 (1978) 1- 22

138. Babuska, I. and W.C. Rheinboldt, Adaptive approaches and reliability estimations in finite element analysis 17/18 (1979) 519- 540

139. Babuška, I. and W.G. Szymczak, An error analysis for the finite element method applied to convection diffusion problems 31 (1982) 19- 42

140. Babuška, I. and W.C. Rheinboldt, Computational error estimates and adaptive processes for some nonlinear structural problems 34 (1982) 895- 937

141. Babuška, I. and W. Gui, Basic principles of feedback and adaptive approaches in the finite element method 55 (1986) 27- 42

142. Babuška, I. and A. Miller, A feedback element method with a posteriori error estimation: Part I. The finite element method and some basic properties of the a posteriori error estimator 61 (1987) 1- 40

143. Babuška, I. and B.Q. Guo, The h - p version of the finite element method for problems with nonhomogeneous essential boundary condition 74 (1989) 1- 28

144. Babuška, I. and M. Suri, The p - and h - p version of the finite element method, An overview 80 (1990) 5- 26

145. Babuška, I., B.Q. Guo and E.P. Stephan, The h - p version of the boundary element method with geometric mesh on polygonal domains 80 (1990) 319- 325

146. Babuška, I., The problem of modeling the elastomechanics in engineering 82 (1990) 155- 182

147. Babuška, I. and L. Li, The problem of plate modeling: Theoretical and computational results 100 (1992) 249- 273

148. Bachrach, W.E., W.K. Liu and R.A. Uras, A consolidation of various approaches in developing naturally based quadrilaterals 55 (1986) 43- 62

149. Bailey, C.D., The method of Ritz applied to the equation of Hamilton 7 (1976) 235- 247

150. Bailey, C.D., Vibration and local instability of thermally stressed plates 25 (1981) 263- 278

151. Bailey, C.D. and J.L. Haines, Vibration and stability of non-conservative follower force systems 26 (1981) 1- 31

152. Bailey, C.D. and R.D. Witchey, Harmonic motion of nonconservative, forced, damped systems subjected to nonpotential follower forces
42 (1984) 71- 88

153. Bailey, C.D., Dynamics and the calculus of variations
60 (1987) 275- 287

154. Baker, A.J., Finite element solution theory for three-dimensional boundary flows (Erratum, 5 (1975) 121-122)
4 (1974) 367- 386

155. Baker, A.J. and M.O. Soliman, On the accuracy and efficiency of a finite element tensor product algorithm for fluid dynamics applications
27 (1981) 215- 237

156. Baker, A.J., On current aspects of finite element computational fluid mechanics for turbulent flows
32 (1982) 261- 282

157. Baker, A.J., A finite element penalty algorithm for the parabolic Navier-Stokes equations for turbulent three-dimensional flow
46 (1984) 277- 293

158. Baker, A.J., On a penalty finite element CFD algorithm for high speed flow
51 (1985) 395- 420

159. Balakrishnan, A.V., Combined structures-controls optimization of lattice trusses
94 (1992) 131- 152

160. Balasubramanian, B., M. Svoboda and W. Bauer, Structural optimization of I.C. engines subjected to mechanical and thermal loads
89 (1991) 337- 360

161. Balasubramonian, S. and K.S.S. Iyer, System optimisation for random earthquake forces
31 (1982) 233- 235

162. Ballal, G., C.-H. Li, R. Glowinski and N.R. Amundson, Single particle char combustion and gasification
75 (1989) 467- 479

163. Balling, R.J., K.S. Pister and E. Polak, DELIGHT.STRUCT: An optimization-based computer-aided design environment for structural engineering
38 (1983) 237- 251

164. Balmer, H., J.S. Doltsinis and M. König, Elastoplastic and creep analysis with the ASKA program system
3 (1974) 87- 104

165. Balmer, H. and J.S. Doltsinis, Extensions to the elastoplastic analysis with the ASKA program system
13 (1978) 363- 401

166. Bamberger, A., Definition d'une methodologie de demonstration numerique d'existence de solutions d'équations elliptiques semi-linéaires
75 (1989) 3- 10

167. Bamberger, A., B. Cockburn, Y. Goldman, P. Joly and M. Kern, Numerical solutions of Maxwell's equations in a conductive and polarizable medium
75 (1989) 11- 25

168. Bank, R.E. and B.D. Welfert, A posteriori error estimates for the Stokes equations: A comparison
82 (1990) 323- 340

169. Bank, R.E. and B.D. Welfert, A comparison between the mini-element and the Petrov-Galerkin formulations for the generalized Stokes problem
83 (1990) 61- 68

170. Barba, A., G. Bergeles, I. Demirdzic, A.D. Gosman and B.E. Launder, The computation of flow in a spirally fluted tube
44 (1984) 49- 65

171. Barbosa, H.J.C. and T.J.R. Hughes, The finite element method with Lagrange multipliers on the boundary: Circumventing the Babuška-Brezzi condition
85 (1991) 109- 128

172. Barbosa, H.J.C. and T.J.R. Hughes, Circumventing the Babuška-Brezzi condition in mixed finite element approximations of elliptic variational inequalities
97 (1992) 193- 210

173. Bardet, J.P., Finite element analysis of surface instability in hypo-elastic solids 78 (1990) 273- 296

174. Barenghi, C.F., A spectral method for time modulated Taylor-Couette flow 80 (1990) 223- 227

175. Barone, M.R. and R.J. Yang, A boundary element approach for recovery of shape sensitivities in three-dimensional elastic solids 74 (1989) 69- 82

176. Barragy, E. and G.F. Carey, A partitioning scheme and iterative solution for sparse bordered systems 70 (1988) 321- 327

177. Barragy, E. and G.F. Carey, Preconditioners for high degree elements 93 (1991) 97- 110

178. Barrett, D. and A. Soler, A finite element model for thick beams 25 (1981) 299- 313

179. Barrett, J.W. and K.W. Morton, Approximate symmetrization and Petrov-Galerkin methods for diffusion-convection problems 45 (1984) 97- 122

180. Bartholomew, P., Solution of elastic crack problems by superposition of finite elements and singular fields 13 (1978) 59- 78

181. Bartholomew, R.W., Velocity field estimates and three-dimensional discrete vortex methods 71 (1988) 15- 29

182. Bar-Yoseph, P., On the accuracy of interlaminar stress calculation in laminated plates 36 (1983) 309- 329

183. Bathe, K.J. and A.P. Cimento, Some practical procedures for the solution of nonlinear finite element equations 22 (1980) 59- 85

184. Bathe, K.J. and S. Ramaswamy, An accelerated subspace iteration method 23 (1980) 313- 331

185. Bathe, K.-J., N.-S. Lee and M.L. Bucalem, On the use of hierarchical models in engineering analysis 82 (1990) 5- 26

186. Batra, R.L. and K. Koshy, Numerical solution of three-dimensional entrance flow of a Bingham material through noncircular ducts 19 (1979) 313- 332

187. Batra, R.L. and V.R. Sudarsan, Laminar flow heat transfer in the entrance region of concentric annuli for power law fluids 95 (1992) 1- 16

188. Batt, J.R. and S. Gellin, Rapid reanalysis by the force method 53 (1985) 105- 117

189. Battarra, V., C. Canuto and A. Quarteroni, A Chebyshev spectral method for gas transients in pipelines 48 (1985) 329- 352

190. Baumann, C.E., M.A. Storti and S.R. Idelsohn, A Petrov-Galerkin technique for the solution of transonic and supersonic flows 95 (1992) 49- 70

191. Baumgarte, J., Stabilization of constraints and integrals of motion in dynamical systems 1 (1972) 1- 16

192. Bayo, E., J. García de Jálón and M.A. Serna, A modified Lagrangian formulation for the dynamic analysis of constrained mechanical systems 71 (1988) 183- 195

193. Bayo, E., J. García de Jalón, A. Avello and J. Cuadrado, An efficient computational model for real time multibody dynamic simulation in fully cartesian coordinates 92 (1991) 377- 395

194. Bažant, Z.P., Spurious reflection of elastic waves in nonuniform finite element grids 16 (1978) 91- 100

195. Bègue, C., C. Bernardi, N. Debit, Y. Maday, G.E. Karniadakis, C. Mavriplis and A.T. Patera, Non-conforming spectral element-finite element approximations for partial differential equations 75 (1989) 109- 125

196. Behie, A., D. Collins and P. Forsyth, Jr., Incomplete factorization methods for three-dimensional non-symmetric problems 42 (1984) 287- 299

197. Belegundu, A.D. and J.S. Arora, A sensitivity interpretation of adjoint variables in optimal design 48 (1985) 81- 89

198. Belegundu, A.D. and S.D. Rajan, A shape optimization approach based on natural design variables and shape functions 66 (1988) 87- 106

199. Bellagamba, L., CONGAU - constrained minimization of least squares objective functions 16 (1978) 303- 311

200. Bellamy-Knight, P.G., M.G. Benson, J.H. Gerrard and I. Gladwell, Convergence properties of panel methods 76 (1989) 171- 178

201. Bellet, D. and M.C. Vinatier, Numerical spectral method for flows through aneurisms 63 (1987) 167- 182

202. Bello-Ochende, F.L., A heat function formulation for thermal convection in a square cavity 68 (1988) 141- 149

203. Belytschko, T., H.-J. Yen and R. Mullen, Mixed methods for time integration 17/18 (1979) 259- 275

204. Belytschko, T. and R. Mullen, Two-dimensional fluid-structure impact computations with regularization 27 (1981) 139- 154

205. Belytschko, T., C.S. Tsay and W.K. Liu, A stabilization matrix for the bilinear Mindlin plate element 29 (1981) 313- 327

206. Belytschko, T., D.P. Flanagan and J.M. Kennedy, Finite element methods with user-controlled meshes for fluid-structure interaction 33 (1982) 669- 688

207. Belytschko, T., J.I. Lin and C.-S. Tsay, Explicit algorithms for the nonlinear dynamics of shells 42 (1984) 225- 251

208. Belytschko, T., J.S.-J. Ong, W.K. Liu and J.M. Kennedy, Hourglass control in linear and nonlinear problems 43 (1984) 251- 276

209. Belytschko, T., J.S.-J. Ong and W.K. Liu, A consistent control of spurious singular modes in the 9-node Lagrange element for the Laplace and Mindlin plate equations 44 (1984) 269- 295

210. Belytschko, T., P. Smolinski and W.K. Liu, Stability of multi-time step partitioned integrators for first-order finite element systems 49 (1985) 281- 297

211. Belytschko, T., H. Stolarski, W.K. Liu, N. Carpenter and J.S.-J. Ong, Stress projection for membrane and shear locking in shell finite elements 51 (1985) 221- 258

212. Belytschko, T. and W.E. Bachrach, Efficient implementation of quadrilaterals with high coarse-mesh accuracy 54 (1986) 279- 301

213. Belytschko, T., W.K. Liu and J.S.-J. Ong, Mixed variational principles and stabilization of spurious modes in the 9-node element 62 (1987) 275- 292

214. Belytschko, T., J. Fish and B.E. Engelmann, A finite element with embedded localization zones 70 (1988) 59- 89

215. Belytschko, T. and J. Fish, Embedded hinge lines for plate elements 76 (1989) 67- 86

216. Belytschko, T., J. Fish and A. Bayliss, The spectral overlay on finite elements for problems with high gradients 81 (1990) 71- 89

217. Belytschko, T., E.J. Plaskacz, J.M. Kennedy and D.L. Greenwell, Finite element analysis on the CONNECTION machine 81 (1990) 229- 254

218. Belytschko, T. and L.P. Bindeman, Assumed strain stabilization of the 4-node quadrilateral with 1-point quadrature for nonlinear problems 88 (1991) 311- 340

219. Belytschko, T. and Y.Y. Lu, Stability analysis of elemental explicit-implicit partitions by Fourier methods 95 (1992) 87- 96

220. Belytschko, T. and Y.Y. Lu, A curvilinear spectral overlay method for high gradient problems 95 (1992) 383- 396

221. Belytschko, T., B.L. Wong and H.-Y. Chiang, Advances in one-point quadrature shell elements 96 (1992) 93- 107

222. Benallal, A., R. Billardon and J. Lemaitre, Continuum damage mechanics and local approach to fracture: Numerical procedures 92 (1991) 141- 155

223. Benantar, M., R. Biswas, J. Flaherty and M.S. Shephard, Parallel computation with adaptive methods for elliptic and hyperbolic systems 82 (1990) 73- 93

224. Bendsøe, M.P. and N. Kikuchi, Generating optimal topologies in structural design using a homogenization method 71 (1988) 197- 224

225. Bendsøe, M.P. and H.C. Rodrigues, Integrated topology and boundary shape optimization of 2-D solids 87 (1991) 15- 34

226. Benim, A.C. and W. Zinser, Investigation into the finite element analysis of confined turbulent flows using a $k-\epsilon$ model of turbulence 51 (1985) 507- 523

227. Benim, A.C. and W. Zinser, A segregated formulation of Navier-Stokes equations with finite elements 57 (1986) 223- 237

228. Benim, A.C., A finite element solution of radiative heat transfer in participating media utilizing the moment method 67 (1988) 1- 14

229. Benkhaldoun, F. and B. Larroutuou, A finite element adaptive investigation of curved stable and unstable flame front 76 (1989) 119- 134

230. Benson, D.J., An efficient, accurate, simple ALE method for nonlinear finite element programs 72 (1989) 305- 350

231. Benson, D.J., Vectorizing the right-hand side assembly in an explicit finite element program 73 (1989) 147- 152

232. Benson, D.J. and J.O. Hallquist, A single surface contact algorithm for the post-buckling analysis of shell structures 78 (1990) 141- 163

233. Benson, D.J., A new two-dimensional flux-limited shock viscosity for impact calculations 93 (1991) 39- 95

234. Benson, D.J., Vectorization techniques for explicit arbitrary Lagrangian-Eulerian calculations 96 (1992) 303- 328

235. Benson, D.J., Computational methods in Lagrangian and Eulerian hydrocodes 99 (1992) 235- 394

236. Bergan, P.G. and T. Søreide, A comparative study of different numerical solution techniques as applied to a nonlinear structural problem 2 (1973) 185- 201

237. Bergan, P.G. and I. Holand, Nonlinear finite element analysis of concrete structures 17/18 (1979) 443- 467

238. Bergan, P.G. and E. Mollestad, An automatic time-stepping algorithm for dynamic problems 49 (1985) 299- 318

239. Bergan, P.G. and C.A. Felippa, A triangular membrane element with rotational degrees of freedom 50 (1985) 25- 69

240. Bergman, C.M. and J.B. Vos, Parallelization of CFD codes 89 (1991) 523- 528

241. Bergman, L.A. and J.C. Heinrich, Petrov-Galerkin finite element solution for the first passage probability and moments of first passage time of the randomly accelerated free particle 27 (1981) 345- 362

242. Berković, M. and Z. Drašković, On the essential mechanical boundary conditions in two-field finite element approximations 91 (1991) 1339-1355

243. Bermúdez, A. and J. Fernández, Solving unilateral problems for beams by finite element methods 54 (1986) 67- 73

244. Bermúdez, A. and J. Durany, Numerical solution of steady-state flow through a porous dam 68 (1988) 55- 65

245. Bermúdez, A. and J. Durany, Numerical solution of cavitation problems in lubrication 75 (1989) 457- 466

246. Bernardi, C., G. Coppoletta, V. Girault and Y. Maday, Spectral methods for the Stokes problem in stream-function formulation 80 (1990) 229- 236

247. Bernardou, M., S. Fayolle and F. Léné, Numerical analysis of junctions between plates 74 (1989) 307- 326

248. Bernstein, B., M.K. Kadivar and D.S. Malkus, Steady flow of memory fluids with finite elements: Two test problems 27 (1981) 279- 302

249. Berry, M.W. and R.J. Plemmons, Algorithms and experiments for structural mechanics on high-performance architectures 64 (1987) 487- 507

250. Beskos, D.E. and G.V. Narayanan, Dynamic response of frameworks by numerical Laplace transform 37 (1983) 289- 307

251. Besseling, J.F., Non-linear analysis of structures by the finite element method as a supplement to a linear analysis 3 (1974) 173- 194

252. Besseling, J.F., Derivatives of deformation parameters for bar elements and their use in buckling and postbuckling analysis 12 (1977) 97- 124

253. Besseling, J.F., L.J. Ernst, K. Van Der Werff, A.U. De Koning and E. Riks, Geometrical and physical nonlinearities: some developments in the Netherlands 17/18 (1979) 131- 157

254. Besseling, J.F., Non-linear theory for elastic beams and rods and its finite element representation 31 (1982) 205- 220

255. Besterfield, G.H., W.K. Liu, M.A. Lawrence and T. Belytschko, Fatigue crack growth reliability by probabilistic finite elements 86 (1991) 297- 320

256. Bestle, D. and E. Kreuzer, A modification and extension of an algorithm for generalized cell mapping 59 (1986) 1- 9

257. Bhargava, R.D. and S.S. Puranik, Torsion problem for elastic cylinder with holes 21 (1980) 63- 74

258. Bhargava, R.D. and S. Puranik, Torsion problem for elastic cylinder with inserts and holes 23 (1980) 281- 291

259. Bhashyam, G.R. and R.H. Gallagher, A triangular shear-flexible finite element for moderately thick laminated composite plates 40 (1983) 309- 326

260. Biffle, J.H. and E.B. Becker, Finite element stress formulation for dynamic elastic-plastic analysis 6 (1975) 101- 119

261. Biffle, J.H. and S.W. Key, Finite element formulations for transient dynamic problems in solids using explicit time integration 12 (1977) 323- 336

262. Billey, V., J Periaux, B. Stoufflet, A. Dervieux, L. Fezoui and V. Selmin, Recent improvements in Galerkin and upwind Euler solvers and applications to 3-D transonic flow in aircraft design 75 (1989) 409- 414

263. Blanchard, D. and P.G. Ciarlet, A remark on the von Kármán equations 37 (1983) 79- 92

264. Blottner, F.G., Variable grid scheme applied to turbulent boundary layers 4 (1974) 179- 194

265. Blottner, F.G., Investigation of some finite-difference techniques for solving the boundary layer equations 6 (1975) 1- 30

266. Blottner, F.G., Numerical solution of slender channel laminar flows 11 (1977) 319- 339

267. Boerstoel, J.W. and S.P. Spekreysse, An information system for the numerical simulation of 3D Euler flows around aircraft 89 (1991) 237- 257

268. Bogomolnii, A., G. Eskin and S. Zuchowizkii, Numerical solution of the stamp problem 15 (1978) 149- 159

269. Boni, B. and M. Kleiber, Numerical plastic collapse analysis of plane bending-and-torque supporting grids 19 (1979) 1- 19

270. Boot, J.C. and D.B. Moore, An efficient analysis for thin plates of general quadrilateral shape subject to bending stresses 43 (1984) 57- 79

271. Borja, R.I. and S.R. Lee, Cam-Clay plasticity, Part 1: Implicit integration of elasto-plastic constitutive relations 78 (1990) 49- 72

272. Borja, R.I., One-step and linear multistep methods for nonlinear consolidation 85 (1991) 239- 272

273. Borja, R.I., Composite Newton-PCG and quasi-Newton iterations for nonlinear consolidation 86 (1991) 27- 60

274. Borja, R.I., Cam-Clay plasticity. Part II: Implicit integration of constitutive equation based on a nonlinear elastic stress predictor 88 (1991) 225- 240

275. Borja, R.I. and S.S. Kishnani, On the solution of elliptic free-boundary problems via Newton's method 88 (1991) 341- 361

276. Borkowski, A., Optimization of slab reinforcement by linear programming 12 (1977) 1- 17

277. Borkowski, A. and M. Kleiber, On a numerical approach to shakedown analysis of structures 22 (1980) 101- 119

278. Borri, M. and P. Mantegazza, Efficient solution of quadratic eigenproblems arising in dynamic analysis of structures 12 (1977) 19- 31

279. Bossavit, A. and M. Frémond, The frontal method based on mechanics and dynamic programming - An algebraic account 8 (1976) 153- 178
27 (1981) 303- 318

280. Bossavit, A., On the numerical analysis of eddy-current problems 56 (1986) 167- 215

281. Bossavit, A., Symmetry, groups, and boundary value problems. A progressive introduction to noncommutative harmonic analysis of partial differential equations in domains with geometrical symmetry 76 (1989) 299- 316

282. Bossavit, A., Simplicial finite elements for scattering problems in electromagnetism 57 (1986) 17- 24

283. Boston, D.R., K.D. Willmert and M. Sathyamoorthy, The development and application of the Gauss nonlinearly constrained optimization method 89 (1991) 41- 57

284. Bottaro, A., I.L. Rhyming, M.B. Wehrli, F.S. Rys and P. Rys, Laminar swirling flow and vortex breakdown in a pipe 22 (1980) 131- 149

285. Bottero, A., R. Negre, J. Pastor and S. Turgeman, Finite element method and limit analysis theory for soil mechanics problems 56 (1986) 83- 89

286. Boudourides, M.A. and J.A. Hitiroglou, The variational inequality formulation of a unidirectional gravity-driven free-boundary flow 92 (1991) 289- 308

287. Bouloutas, E.T. and M.A. Celia, An improved cubic Petrov-Galerkin method for simulation of transient advection-diffusion processes in rectangularly decomposable domains 9 (1976) 203- 218

288. Bourgat, J.F., Numerical study of a dual iterative method for solving a finite element approximation of the biharmonic equation

289. Bourgeat, A., Homogenized behavior of two-phase flows in naturally fractured reservoirs with uniform fractures distribution 47 (1984) 205- 216

290. Bourquin, F. and F. d'Hennezel, Numerical study of an intrinsic component mode synthesis method 97 (1992) 49- 76

291. Boutros, Y.Z., M.B. Abd-el-Malek and S.Z. Masoud, Hilbert's method for numerical solution of flow from a uniform channel over irregular bottom topographies 65 (1987) 215- 228

292. Boutros, Y.Z., H. Mansour El-Saadany and I.A. El-Awadi, Infiltration from buried pipes in unsaturated soils 81 (1990) 173- 182

293. Bradley, D., M. Missaghi and S.B. Chin, A Taylor-series approach to numerical accuracy and a third-order scheme for strong convective flows 69 (1988) 133- 151

294. Braibant, V. and C. Fleury, Shape optimal design using B-splines 44 (1984) 247- 267

295. Braibant, V. and C. Fleury, An approximation-concepts approach to shape optimal design 53 (1985) 119- 148

296. Bramble, J.H., R.E. Ewing, J.E. Pasciak and A.H. Schatz, A preconditioning technique for the efficient solution of problems with local grid refinement 67 (1988) 149- 159

297. Bratianu, C. and S.N. Atluri, A hybrid finite element method for Stokes flow: Part I - Formulation and numerical studies 36 (1983) 23- 37

298. Brauchli, H. and R. Weber, Dynamical equations in natural coordinates 91 (1991) 1403-1414

299. Braun, K.A. and T.L. Johnsen, Hypermatrix generalization of the Jacobi- and Eberlein-method for computing eigenvalues and eigenvectors of Hermitian or non-Hermitian matrices 4 (1974) 1- 18

300. Brazier, P.H., An optimum SOR procedure for the solution of elliptic partial differential equations with any domain or coefficient set 3 (1974) 335- 347

301. Brenier, Y., A combinatorial algorithm for the Euler equations of incompressible flows 75 (1989) 325- 332

302. Bressan, N. and D. Pavoni, Truncation versus mapping in the spectral approximation to the Korteweg-De Vries equation 80 (1990) 443- 450

303. Brezzi, F., C. Canuto and A. Russo, A self-adaptive formulation for the Euler/Navier-Stokes coupling 73 (1989) 317- 330

304. Brezzi, F., L.D. Marini and P. Pietra, Numerical simulation of semiconductor devices 75 (1989) 493- 514

305. Brezzi, F. and K.-J. Bathe, A discourse on the stability conditions for mixed finite element formulations 82 (1990) 27- 57

306. Brezzi, F., M.-O. Bristeau, L.P. Franca, M. Mallet and G. Rogé, A relationship between stabilized finite element methods and the Galerkin method with bubble functions 96 (1992) 117- 129

307. Briassoulis, D., The C^0 shell plate and beam elements freed from their deficiencies 72 (1989) 243- 266

308. Briggs, D.G., A finite difference scheme for the incompressible advection-diffusion equation (see also 8 (1976) 357-360) 6 (1975) 233- 241

309. Briggs, D.G., Author's reply to comment on: A finite difference scheme for the incompressible advection-diffusion equation (8 (1976) 357-358) 8 (1976) 359

310. Bristeau, M.O., O. Pironneau, R. Glowinski, J. Periaux and P. Perrier, On the numerical solution of nonlinear problems in fluid dynamics by least squares and finite element methods – Part I. Least square formulations and conjugate gradient solutions of the continuous problems

311. Bristeau, M.O., O. Pironneau, R. Glowinski, J. Périaux, P. Perrier and G. Poirier, On the numerical solution of nonlinear problems in fluid dynamics by least squares and finite element methods (II). Application to transonic flow simulations

312. Brønlund, O.E. and T.L. Johnsen, QR-factorization of partitioned matrices – Solution of large systems of linear equations with non-definite coefficient matrices

313. Brooks, A.N. and T.J.R. Hughes, Streamline upwind/Petrov–Galerkin formulations for convection dominated flows with particular emphasis on the incompressible Navier–Stokes equations

314. Brown, P.R., A non-interactive method for the automatic generation of finite element meshes using the Schwarz–Christoffel transformation

315. Brown, R.A., R.C. Armstrong, A.N. Beris and P.-W. Yeh, Galerkin finite element analysis of complex viscoelastic flows

316. Bruneau, C.H., A non-conforming finite element method for solving a least-square formulation of Tricomi's problem

317. Brushlinsky, K.V., Numerical simulation of two-dimensional plasma flow in channels

318. Bufler, H., Generalized variational principles with relaxed continuity requirements for certain nonlinear problems, with an application to nonlinear elasticity

319. Bufler, H., On the work theorems for finite and incremental elastic deformations with discontinuous fields: a unified treatment of different versions

320. Bufler, H., Derivation of the variational inequalities and extremum principles of the frictionless elastic contact problem

321. Buragohain, D.N. and S.C. Patodi, A triangular finite difference scheme for large deflection problems

322. Burgess, G. and E. Mahajerin, A numerical method for laterally loaded thin plates

323. Cameron, R.F. and S. McKee, The direct numerical solution of a Volterra integral equation arising out of viscoelastic stress in materials

324. Campos, L.T., J.T. Oden and N. Kikuchi, A numerical analysis of a class of contact problems with friction in elastostatics

325. Cannarozzi, A.A., M. Capurso and F. Laudiero, An iterative procedure for collapse analysis of reinforced concrete plates

326. Cannarozzi, A.A., On the resolution of some unilaterally constrained problems in structural engineering

327. Cantù, E. and C. Cinquini, Iterative solutions for problems of optimal elastic design

328. Carcaillet, R., G.S. Dulikravich and S.R. Kennon, Generation of solution-adaptive computational grids using optimization

17/18 (1979) 619– 657

51 (1985) 363– 394

3 (1974) 153– 172

32 (1982) 199– 259

25 (1981) 101– 126

58 (1986) 201– 226

39 (1983) 117– 129

6 (1975) 293– 307

19 (1979) 235– 255

36 (1983) 95– 124

53 (1985) 163– 182

16 (1978) 313– 325

49 (1985) 1– 15

29 (1981) 219– 232

34 (1982) 821– 845

16 (1978) 47– 68

24 (1980) 339– 357

20 (1979) 257– 266

57 (1986) 279– 295

329. Cardona, A., M. Geradin and D.B. Doan, Rigid and flexible joint modelling in multibody dynamics using finite elements 89 (1991) 395- 418

330. Cardona, A. and M. Gérardin, A superelement formulation for mechanism analysis 100 (1992) 1- 29

331. Cardot, B., F. Coron, B. Mohammadi and O. Pironneau, Simulation of turbulence with the $k-\epsilon$ model 87 (1991) 103- 116

332. Caretto, L.S., R.M. Curr and D.B. Spalding, Two numerical methods for three-dimensional boundary layers 1 (1972) 39- 57

333. Carey, G.F., A unified approach to three finite element theories for geometric nonlinearity 4 (1974) 69- 79

334. Carey, G.F., A mesh-refinement scheme for finite element computations 7 (1976) 93- 105

335. Carey, G.F., An analysis of finite element equations and mesh subdivision 9 (1976) 165- 179

336. Carey, G.F., Variational principles for the transonic airfoil problem 13 (1978) 129- 140

337. Carey, G.F., Adaptive refinement and nonlinear fluid problems 17/18 (1979) 541- 560

338. Carey, G.F. and K. Sepehrnoori, Gershgorin theory for stiffness and stability of evolution systems and convection-diffusion 22 (1980) 23- 48

339. Carey, G.F., Y.K. Cheung and S.L. Lau, Mixed operator problems using least squares finite element collocation 22 (1980) 121- 130

340. Carey, G.F. and R. Krishnan, On a nonlinear iterative method in applied mechanics - Part 1 26 (1981) 173- 180

341. Carey, G.F., A. Kabaila and M. Utku, On penalty methods for interelement constraints 30 (1982) 151- 171

342. Carey, G.F. and R. Krishnan, On a nonlinear iterative method in applied mechanics, Part II 30 (1982) 323- 333

343. Carey, G.F., Derivative calculation from finite element solutions 35 (1982) 1- 14

344. Carey, G.F. and R. Krishnan, Penalty approximation of Stokes flow 35 (1982) 169- 206

345. Carey, G.F. and R. Krishnan, Penalty finite element method for the Navier-Stokes equations 42 (1984) 183- 224

346. Carey, G.F. and R. Krishnan, Continuation techniques for a penalty approximation of the Navier-Stokes equations 48 (1985) 265- 282

347. Carey, G.F., S.S. Chow and M.K. Seager, Approximate boundary-flux calculations 50 (1985) 107- 120

348. Carey, G.F. and R. Krishnan, Convergence of iterative methods in penalty finite element approximation of the Navier-Stokes equations 60 (1987) 1- 29

349. Carey, G.F. and B.-N. Jiang, Nonlinear preconditioned conjugate gradient and least-squares finite elements 62 (1987) 145- 154

350. Carey, G.F. and T.T. Pan, Shocked transonic flow calculations using finite elements and a fictitious gas 81 (1990) 1- 11

351. Carey, G.F. and Y. Shen, Approximations of the KdV equation by least squares finite elements 93 (1991) 1- 11

352. Carnoy, E., Postbuckling analysis of elastic structures by the finite element method 23 (1980) 143- 174

353. Carnoy, E.G., Mixed finite elements based upon Marguerre theory for the study of geometrically nonlinear behavior of thin shells 29 (1981) 121- 146

354. Carnoy, E.G., Asymptotic study of the elastic postbuckling behavior of structures by the finite element method 29 (1981) 147- 173

355. Carnoy, E. and G. Sander, Stability and postbuckling analysis of nonlinear structures
32 (1982) 329- 363

356. Caussignac, P. and R. Touzani, Solution of three-dimensional boundary layer equations by a discontinuous finite element method, Part I: Numerical analysis of a linear model problem
78 (1990) 249- 271

357. Caussignac, P. and R. Touzani, Solution of three-dimensional boundary layer equations by a discontinuous finite element method, Part II: Implementation and numerical results
79 (1990) 1- 20

358. Cebeci, T. and J. Bard, Thermal response of an unsteady laminar boundary layer on a flat plate due to step changes in wall temperature and in wall heat flux
2 (1973) 323- 338

359. Cebeci, T., K.C. Chang and P. Bradshaw, Solution of a hyperbolic system of turbulence-model equations by the "box" scheme
22 (1980) 213- 227

360. Cebeci, T., R.S. Hirsh, H.B. Keller and P.G. Williams, Studies of numerical methods for the plane Navier-Stokes equations
27 (1981) 13- 44

361. Cedolin, L. and Z.P. Bažant, Effect of finite element choice in blunt crack band analysis
24 (1980) 305- 316

362. Chan, A.S.L. and V.M. Trbojevic, Thin shell finite element by the mixed method formulation - Part 1
9 (1976) 337- 367

363. Chan, A.S.L. and V.M. Trbojevic, Thin shell finite element by the mixed method formulation - Parts 2 and 3
10 (1977) 75- 103

364. Chan, A.S.L. and J.P. Wolf, Cooling tower supporting columns and reinforcing rings in small and large displacement analyses
13 (1978) 1- 26

365. Chan, A.S.L. and K.M. Hsiao, Nonlinear analysis using a reduced number of variables
52 (1985) 899- 913

366. Chan, A.S.L. and K.V. Spiliopoulos, A simplified method of solution for the short cycle creep-plasticity problem
60 (1987) 257- 274

367. Chan, A.S.L. and T.B. Lau, Further development of the reduced basis method for geometric nonlinear analysis
62 (1987) 127- 144

368. Chan, S.L., Large deflection kinematic formulations for three-dimensional framed structures
95 (1992) 17- 36

369. Chang, C.L., A least-squares finite element method for the Helmholtz equation
83 (1990) 1- 7

370. Chang, C.L. and B.-N. Jiang, An error analysis of least-squares finite element method of velocity-pressure-vorticity formulation for Stokes problem
84 (1990) 247- 255

371. Chang, H., A simple computer-aided design procedure for minimal variations
73 (1989) 99- 107

372. Chang, T.Y. and K. Sawamiphakdi, Large deflection and post-buckling analysis of shell structures
32 (1982) 311- 326

373. Chang, T.Y., A.F. Saleeb and W. Graf, On the mixed formulation of a 9-node Lagrange shell element
73 (1989) 259- 281

374. Changizi, K., Y.A. Khulief and A.A. Shabana, Transient analysis of flexible multi-body systems. Part II: application to aircraft landing
54 (1986) 93- 110

375. Chaouche, A., A. Randriamampianina and P. Bontoux, A collocation method based on the influence matrix technique for Navier-Stokes problems in annular domains
80 (1990) 237- 244

376. Charbonneau, G., S. Vinarnick, P. Néel, C. Évariste and C. Vibet, Symbolic modelling of controlled mechanisms 98 (1992) 23- 40

377. Charman, C.M., R.M. Grenier and R.E. Nickell, Large deformation inelastic analysis of impact for shipping casks 33 (1982) 759- 784

378. Chavent, G., G. Cohen and J. Jaffre, Discontinuous upwinding and mixed finite elements for two-phase flows in reservoir simulation 47 (1984) 93- 118

379. Chen, C.J., M.Z. Sheikholeslami and R.B. Bhiladvala, Finite analytic numerical method for two-point boundary value problems of ordinary differential equations 75 (1989) 61- 76

380. Chen, C.-K., K.-L. Wong and S.-C. Lee, The finite element solution of laminar combined convection from two spheres in tandem arrangement 59 (1986) 73- 84

381. Chen, C.P. and M.J. Sheu, Numerical simulation of unsteady transonic flows using a field integral equation method 98 (1992) 251- 260

382. Chen, D.R. and M.J. Sheu, Investigation of numerical solutions of integral equation methods for multi-element aerofoils 68 (1988) 345- 364

383. Chen, D.R. and M.J. Sheu, Numerical solutions for oscillatory aerofoil at high reduced frequency 74 (1989) 55- 68

384. Chen, H.-T., T.-M. Chen and C.-K. Chen, Hybrid Laplace transform/finite element method for one-dimensional transient heat conduction problems 63 (1987) 83- 95

385. Chen, T.-M., Some questions concerning the initial fields in finite difference computation of two-dimensional steady transonic flows 57 (1986) 131- 142

386. Chen, T.-M., A modified hybrid Laplace transform/finite element method for transient heat conduction problems 98 (1992) 261- 272

387. Chen, Y.-H., Solution of stiffened problems for a finite internally cracked plate by using complex potentials and the generalized variational method 62 (1987) 1- 16

388. Chen, Y.Z., Solution of plane notch problems for a finite plate by the generalized variational method 42 (1984) 57- 70

389. Chen, Y.Z., On the torsional rigidity for a hollow shaft with outer or inner keys 42 (1984) 107- 118

390. Chen, Y.Z., A special boundary-element formulation for multiple-circular-hole problems in an infinite plate 50 (1985) 263- 273

391. Chen, Z. and H.L. Schreyer, Secant structural solution strategies under element constraint for incremental damage 90 (1991) 869- 884

392. Chen, Z.Q. and X. Ji, A new approach to finite deformation problems of elastoplasticity-boundary element analysis methods 78 (1990) 1- 18

393. Cheng Chang-jun and Lui Xiao-an, Buckling and post-buckling of annular plates in shearing, Part I: Buckling 92 (1991) 157- 172

394. Cheng Chang-jun and Lui Xiao-an, Buckling and post-buckling of annular plates in shearing, Part II: Post-buckling 92 (1991) 173- 191

395. Cheng, J.-H. and N. Kikuchi, An analysis of metal forming processes using large deformation elastic-plastic formulations 49 (1985) 71- 108

396. Cheng, S.-I., A deterministic view of shear turbulence 64 (1987) 5- 19

397. Cheng, W.-Q., F.-W. Zhu and J.-W. Luo, Computational finite element analysis and optimal design for multibody contact system 71 (1988) 31- 39

398. Chenot, J.L., P. Montmitonnet, A. Bern and C. Bertrand-Corsini, A method for determining free surfaces in steady state finite element computations 92 (1991) 245- 260

399. Chinosi, C., G. Sacchi and T. Scapolla, A hierachic family of conforming finite elements for the solution of plate bending problems 80 (1990) 327- 336

400. Chiu, W.K. and M.P. Norton, Application of a collocation method to unsteady flow problems 83 (1990) 231- 245

401. Choe, K.Y. and K.A. Holsapple, The discontinuous finite element method with the Taylor-Galerkin approach for nonlinear hyperbolic conservation laws 95 (1992) 141- 167

402. Choi, K.K. and H.G. Seong, A domain method for shape design sensitivity analysis of built-up structures 57 (1986) 1- 15

403. Chon, Y.T., W.A. Nash and C.E. Hutchinson, On the yielding rate of a seismic structure 9 (1976) 139- 152

404. Christiansen, H.N. and S.E. Benzley, Computer graphics displays of nonlinear calculations 34 (1982) 1037-1050

405. Christie, I. and J.M. Sanz-Serna, A Galerkin method for a nonlinear integro-differential wave system 44 (1984) 229- 237

406. Christov, C. and Z. Zapryanov, Oscillatory fully developed viscous flow in a toroidal tube 22 (1980) 49- 58

407. Chu, M.T. and G.H. Guirguis, A numerical method for solving interface problems arising in two-point boundary value problems 74 (1989) 99- 113

408. Chuanrong, Z. and B. Yimin, Structural modification and vibration reanalysis 83 (1990) 99- 108

409. Chung, T.J. and W.S. Yoon, Wave instability in combustion 90 (1991) 583- 608

410. Chyu, W.J., T. Kawamura and D.P. Bencze, Calculation of external-internal flow fields for mixed-compression inlets 64 (1987) 21- 37

411. Ciarlet, P.G. and P.-A. Raviart, Interpolation theory over curved elements, with applications to finite element methods 1 (1972) 217- 249

412. Ciarlet, P.G. and P.-A. Raviart, Maximum principle and uniform convergence for the finite element method 2 (1973) 17- 31

413. Ciarlet, P.G. and R. Glowinski, Dual iterative techniques for solving a finite element approximation of the biharmonic equation 5 (1975) 277- 295

414. Ciarlet, P.G. and P. Destuynder, A justification of a nonlinear model in plate theory 17/18 (1979) 227- 258

415. Ciarlet, P.G. and S. Kesavan, Two-dimensional approximations of three-dimensional eigenvalue problems in plate theory 26 (1981) 145- 172

416. Cinquini, C., D. Lamblin and G. Guerlement, Variational formulation of the optimal plastic design of circular plates 11 (1977) 19- 30

417. Cline, D.D. and J.J. Bertin, Considerations for the development of grid schemes for hypersonic flows 75 (1989) 283- 297

418. Clough, R.W. and E.L. Wilson, Dynamic analysis of large structural systems with local nonlinearities 17/18 (1979) 107- 129

419. Cochelin, B. and M. Potier-Ferry, A numerical model for buckling and growth of delaminations in composite laminates 89 (1991) 361- 380

420. Codina, R., E. Oñate and M. Cervera, The intrinsic time for the streamline upwind/Petrov-Galerkin formulation using quadratic elements 94 (1992) 239- 262

421. Cohen, G. and P. Joly, Fourth order schemes for the heterogeneous acoustics equation
 80 (1990) 397- 407

422. Cohen, G.A., Analysis of multicircuit shells of revolution by the field method
 8 (1976) 301- 318

423. Cohen, G.A., Transverse shear stiffness of laminated anisotropic shells
 13 (1978) 205- 220

424. Cohen, G.A., Comment on: Note on the effect of transverse shear deformation in laminated anisotropic plates (by E. Reissner) 20 (1979) 203-209
 20 (1979) 211

425. Cohen, G.A., Buckling of laminated anisotropic shells including transverse shear deformation
 26 (1981) 197- 204

426. Cohen, J. and J.O. Ferrari, A conversational language for solving problems in dimensional analysis
 5 (1975) 53- 67

427. Cohen, J., Symbolic and numerical computer analysis of the combined local and overall buckling of rectangular thin-walled columns
 7 (1976) 17- 38

428. Cohen, M.F., Application of the Petrov-Galerkin method to chemical-flooding reservoir simulation in one dimension
 41 (1983) 195- 218

429. Comi, C., G. Maier and U. Perego, Generalized variable finite element modeling and extremum theorems in stepwise holonomic elastoplasticity with internal variables
 96 (1992) 213- 237

430. Comincioli, V. and L. Guerri, Numerical solution of free boundary problems in seepage flow with capillary fringe
 7 (1976) 153- 178

431. Conca, C., Numerical results on the homogenization of Stokes and Navier-Stokes equations modeling a class of problems from fluid mechanics
 53 (1985) 223- 258

432. Conca, C., J. Planchard and M. Vanninathan, Un problème de fréquences propres en couplage fluide-structure
 75 (1989) 27- 37

433. Conca, C., J. Planchard and M. Vanninathan, Existence and location of eigenvalues for fluid-solid structures
 77 (1989) 253- 291

434. Conca, C., M. Duran and J. Planchard, A quadratic eigenvalue problem involving Stokes equations
 100 (1992) 295- 313

435. Conca, M. and M. Vanninathan, A spectral problem arising in fluid-solid structures
 69 (1988) 215- 242

436. Concus, P. and I. Karasalo, A numerical study of capillary stability in a circular cylindrical container with a concave spheroidal bottom
 16 (1978) 327- 339

437. Contro, R., G. Maier and A. Zavelani, Inelastic analysis of suspension structures by nonlinear programming
 5 (1975) 127- 143

438. Cornwell, R.E. and D.S. Malkus, Improved numerical dissipation for time integration algorithms in conduction heat transfer
 97 (1992) 149- 156

439. Corradi, L. and A. Zavelani, A linear programming approach to shakedown analysis of structures
 3 (1974) 37- 53

440. Corradi, L., On stress computation in displacement finite element models
 54 (1986) 325- 339

441. Costa, M., A. Oliva, C.D. Pérez Segarra and R. Alba, Numerical simulation of solid-liquid phase change phenomena
 91 (1991) 1123-1134

442. Cotsaftis, M. and C. Vibet, Synthesis of dynamical equations of mechanisms from their related control laws
 74 (1989) 29- 40

443. Coulaud, O., D. Funaro and O. Kavian, Laguerre spectral approximation of elliptic problems in exterior domains
 80 (1990) 451- 458

444. Coutinho, A.L.G.A., J.L.D. Alves, N.F.F. Ebecken and L.M. Troina, Conjugate gradient solution of finite element equations on the IBM 3090 vector computer utilizing polynomial preconditioners 84 (1990) 129- 145

445. Cowsar, L.C., T.F. Dupont and M.F. Wheeler, A priori estimates for mixed finite element methods for the wave equation 82 (1990) 205- 222

446. Crisfield, M.A., A faster modified Newton-Raphson iteration 20 (1979) 267- 278

447. Crisfield, M.A., Accelerated solution techniques and concrete cracking 33 (1982) 585- 607

448. Crisfield, M.A., A four-noded thin-plate bending element using shear constraints - a modified version of Lyons' element 38 (1983) 93- 120

449. Crisfield, M.A. and J. Wills, Solution strategies and softening materials 66 (1988) 267- 289

450. Crisfield, M.A., A consistent co-rotational formulation for non-linear, three-dimensional, beam-elements 81 (1990) 131- 150

451. Crotty Sisson, J.M., Accurate interior point computations in the boundary integral equation method 79 (1990) 281- 307

452. Cruse, T.A., Recent advances in boundary element analysis methods 62 (1987) 227- 244

453. Curr, R.M., D. Sharma and D.G. Tatchell, Numerical predictions of some three-dimensional boundary layers in ducts 1 (1972) 143- 158

454. Currie, I.G. and W.W. Martin, Temperature calculations for shell enclosures subjected to thermal radiation 21 (1980) 75- 90

455. Cuvelier, C., A capillary free boundary problem governed by the Navier-Stokes equations 48 (1985) 45- 80

456. Dahlburg, R.B. and J.M. Picone, Pseudospectral simulation of compressible magnetohydrodynamic turbulence 80 (1990) 409- 416

457. Dasgupta, G., Computation of exterior potential fields by infinite substructuring 46 (1984) 295- 305

458. Davet, J.L. and P. Destuynder, Free-edge stress concentration in composite laminates: A boundary layer approach 59 (1986) 129- 140

459. Davies, A.M., A numerical investigation of errors arising in applying the Galerkin method to the solution of nonlinear partial differential equations 11 (1977) 341- 350

460. Davies, A.M., Application of the Galerkin method to the solution of Burgers' equation 14 (1978) 305- 321

461. Davies, A.M., On formulating a three-dimensional hydrodynamic sea model with an arbitrary variation of vertical eddy viscosity 22 (1980) 187- 211

462. Davis, M. and G. Fairweather, On the use of spline collocation for boundary value problems arising in chemical engineering 28 (1981) 179- 189

463. Dawe, D.J. and V. Peshkam, Buckling and vibration of finite-length composite prismatic plate structures with diaphragm ends, Part I: Finite strip formulation 77 (1989) 1- 30

464. De Borst, R., Smeared cracking, plasticity, creep, and thermal loading - A unified approach 62 (1987) 89- 110

465. De Borst, R. and P.P.J.M. Peeters, Analysis of concrete structures under thermal loading 77 (1989) 293- 310

466. De Borst, R. and L.J. Sluys, Localization in a Cosserat continuum under static and dynamic loading conditions 90 (1991) 805- 827

467. De Donato, O. and A. Franchi, A modified gradient method for finite element elastoplastic analysis by quadratic programming 2 (1973) 107- 131

468. De Frutos, J., T. Ortega and J.M. Sanz-Serna, A Hamiltonian, explicit algorithm with spectral accuracy for the 'good' Boussinesq system 80 (1990) 417- 423

469. De Roeck, Y.-H., P. Le Tallec and M. Vidrascu, A domain-decomposed solver for nonlinear elasticity 99 (1992) 187- 207

470. Dean, E.J., R. Glowinski and O. Pironneau, Iterative solution of the stream function-vorticity formulation of the Stokes problem, Applications to the numerical simulation of incompressible viscous flow 87 (1991) 117- 155

471. Debongnie, J.F., On a purely Lagrangian formulation of sloshing and fluid-induced vibrations of tanks 58 (1986) 1- 18

472. Decker, K.M., The Monte Carlo method in science and engineering: Theory and application 89 (1991) 463- 483

473. Degani, D., M.Y. Hussaini and A.A. Wray, Vectored injection into compressible laminar and turbulent boundary layers 25 (1981) 11- 20

474. Delfour, M., G. Payre and J.-P. Zolésio, An optimal triangulation for second-order elliptic problems 50 (1985) 231- 261

475. Demkowicz, L., A. Karafiat and T. Liszka, On some convergence results for FDM with irregular mesh 42 (1984) 343- 355

476. Demkowicz, L., J.T. Oden and T. Strouboulis, Adaptive finite elements for flow problems with moving boundaries. Part I: Variational principles and a posteriori estimates 46 (1984) 217- 251

477. Demkowicz, L., Some remarks on moving finite element methods 46 (1984) 339- 349

478. Demkowicz, L., P. Devloo and J.T. Oden, On an h -type mesh-refinement strategy based on minimization of interpolation errors 53 (1985) 67- 89

479. Demkowicz, L. and J.T. Oden, An adaptive characteristic Petrov-Galerkin finite element method for convection-dominated linear and nonlinear parabolic problems in two space variables 55 (1986) 63- 87

480. Demkowicz, L., J.T. Oden, W. Rachowicz and O. Hardy, Toward a universal h - p adaptive finite element strategy, Part 1. Constrained approximation and data structure 77 (1989) 79- 112

481. Demkowicz, L., J.T. Oden and W. Rachowicz, A new finite element method for solving compressible Navier-Stokes equations based on an operator splitting method and h - p adaptivity 84 (1990) 275- 326

482. Demkowicz, L., J.T. Oden, W. Rachowicz and O. Hardy, An h - p Taylor-Galerkin finite element method for compressible Euler equations 88 (1991) 363- 396

483. Dems, K. and J. Lipinski, Application of finite differences for solving the two-dimensional elasticity problem by means of the finite element method 6 (1975) 49- 58

484. Demuren, A.O., Numerical calculations of steady three-dimensional turbulent jets in crossflow 37 (1983) 309- 328

485. Desai, C.S., J. Kujawski, C. Miedzialowski and W. Ryzynski, Improved time integration of nonlinear dynamic problems 62 (1987) 155- 168

486. Desai, C.S., G.W. Wathugala, K.G. Sharma and L. Woo, Factors affecting reliability of computer solutions with hierarchical single surface constitutive models 82 (1990) 115- 137

487. Descloux, J. and M. Tolley, An accurate algorithm for computing the eigenvalues of a polygonal membrane 39 (1983) 37- 53

488. Descloux, J., K. Frosio and M. Flück, A two fluids stationary free boundary problem 77 (1989) 215- 226

489. Destuynder, P., On non linear membrane theory 32 (1982) 377- 399

490. Destuynder, P. and A. Lutoborski, A penalty duality method for the Budiansky-Sanders shell model 35 (1982) 127- 151

491. Destuynder, P. and T. Nevers, A new finite element scheme for bending plates 68 (1988) 127- 139

492. Destuynder, P. and T. Nevers, Some numerical aspects of mixed finite elements for bending plates 78 (1990) 73- 87

493. Deville, M.O., Chebyshev collocation solutions of flow problems 80 (1990) 27- 37

494. Devloo, P., J.T. Oden and T. Strouboulis, Implementation of an adaptive refinement technique for the SUPG algorithm 61 (1987) 339- 358

495. Devloo, P., J.T. Oden and P. Pattani, An $h-p$ adaptive finite element method for the numerical simulation of compressible flow 70 (1988) 203- 235

496. Dewynne, J.N., D.A. Hills and D. Nowell, Calculation of the opening displacement of surface-breaking plane cracks 97 (1992) 321- 331

497. Dey, S.S., Finite element method for random response of structures due to stochastic excitation 20 (1979) 173- 194

498. Dey, S.S. and S.B. Puri, Finite difference analysis of plate response to random loads 31 (1982) 239- 249

499. Dhanish, P.B. and M.S. Shunmugam, An algorithm for form error evaluation - using the theory of discrete and linear Chebyshev approximation 92 (1991) 309- 324

500. Di Blasi, C., S. Crescitelli and G. Russo, Numerical modelling of flow assisted flame spread 75 (1989) 481- 492

501. Di Blasi, C., S. Crescitelli and G. Russo, Model of oscillatory phenomena of flame spread along the surface of liquid fuels 90 (1991) 643- 657

502. Diakonov, S., To the calculation of low frequency oscillations of the Earth core 91 (1991) 1219-1228

503. Diaz, A.R., N. Kikuchi and J.E. Taylor, A method of grid optimization for finite element methods 41 (1983) 29- 45

504. Dietrich, G., A new formulation of the hypermatrix Householder-QR decomposition 9 (1976) 273- 280

505. Dietrich, G., On the efficient and accurate solution of the skew-symmetric eigenvalue problem. An arrangement of new and already known algorithmic formulations 14 (1978) 209- 235

506. Dilintas, G. and P. Laurent-Gengoux, Computing stress intensity factors in anisotropic solids by finite element methods 84 (1990) 111- 127

507. Dirschmid, W., An iteration procedure for reducing the expenses of static, elastoplastic and eigenvalue problems in finite element analyses 35 (1982) 15- 33

508. Distefano, N. and A. Samartin, A dynamic programming approach to the formulation and solution of finite element equations 5 (1975) 37- 52

509. Distefano, N. and A. Rath, System identification in nonlinear structural seismic dynamics 5 (1975) 353- 372

510. Distefano, N. and A. Rath, Sequential identification of hysteretic and viscous models in structural seismic dynamics 6 (1975) 219- 232

511. Djomehri, M.J. and J.H. George, Application of the moving finite element method to moving boundary Stefan problems 71 (1988) 125- 136

512. Doltsinis, I.S. and S. Nöltig, Studies on parallel processing for coupled field problems
89 (1991) 497- 521

513. Don, W.-S. and D. Gottlieb, Spectral simulation of an unsteady compressible flow past a circular cylinder
80 (1990) 39- 58

514. Donat, R. and S. Osher, Propagation of error into regions of smoothness for non-linear approximations to hyperbolic equations
80 (1990) 59- 64

515. Donea, J., S. Giuliani, H. Laval and L. Quartapelle, Finite element solution of the unsteady Navier-Stokes equations by a fractional step method
30 (1982) 53- 73

516. Donea, J., S. Giuliani and J.P. Halleux, An arbitrary Lagrangian-Eulerian finite element method for transient dynamic fluid-structure interactions
33 (1982) 689- 723

517. Donea, J., S. Giuliani, H. Laval and L. Quartapelle, Time-accurate solution of advection-diffusion problems by finite elements
45 (1984) 123- 145

518. Donea, J., T. Belytschko and P. Smolinski, A generalized Galerkin method for steady convection-diffusion problems with application to quadratic shape function elements
48 (1985) 25- 43

519. Donea, J. and L.G. Lamain, A modified representation of transverse shear in C^0 quadrilateral plate elements
63 (1987) 183- 207

520. Donea, J. and H. Laval, Nodal partition of explicit finite element methods for unsteady diffusion problems
68 (1988) 189- 204

521. Donea, J. and L. Quartapelle, An introduction to finite element methods for transient advection problems
95 (1992) 169- 203

522. Douglas Jr., J., B.L. Darlow, M.F. Wheeler and R.P. Kendall, Self-adaptive finite element and finite difference methods for one-dimensional two-phase immiscible flow
47 (1984) 119- 130

523. Douglas Jr., J., M.F. Wheeler, B.L. Darlow and R.P. Kendall, Self-adaptive finite element simulation of miscible displacement in porous media
47 (1984) 131- 159

524. Douglas, Jr., J., J.L. Hensley and T. Arbogast, A dual-porosity model for waterflooding in naturally fractured reservoirs
87 (1991) 157- 174

525. Downer, J.D., K.C. Park and J.C. Chiou, Dynamics of flexible beams for multibody systems: A computational procedure
96 (1992) 373- 408

526. Droux, J.-J., Three-dimensional numerical simulation of solidification by an improved explicit scheme
85 (1991) 57- 74

527. Drummond, J.P., R.C. Rogers and M.Y. Hussaini, A numerical model for supersonic reacting mixing layers
64 (1987) 39- 60

528. Dubois-Pèlerin, Y., T. Zimmermann and P. Bomme, Object-oriented finite element programming: II. A prototype program in Smalltalk
98 (1992) 361- 397

529. Duffett, G. and B.D. Reddy, The analysis of incompressible hyperelastic bodies by the finite element method
41 (1983) 105- 120

530. Duffett, G.A. and B.D. Reddy, The solution of multi-parameter systems of equations with application to problems in nonlinear elasticity
59 (1986) 179- 213

531. Duggan, F., A nonlinear empirical prescription for simultaneously interpolating and smoothing contours over an irregular grid (see also 50 (1985) 195-198)
44 (1984) 119- 125

532. Dulikravich, G.S., K.W. Mortara and L. Marraffa, Physically consistent models for artificial dissipation in transonic potential flow computations 79 (1990) 309- 320

533. Dumir, P.C. and A. Bhaskar, Nonlinear static analysis of rectangular plates on elastic foundations by the orthogonal point collocation method 67 (1988) 111- 124

534. Duncan, D.B. and D.F. Griffiths, The study of a Petrov-Galerkin method for first-order hyperbolic equations 45 (1984) 147- 166

535. Dupont, T.F. and L.B. Wahlbin, An analysis of Dendy's piecewise polynomial Petrov-Galerkin method for a hyperbolic equation with stagnation points 45 (1984) 167- 175

536. Durieu, J. and M. Petit, A 2-D solution of the contact problem in the capstan/tape/roller mechanism of magnetic recorders 43 (1984) 21- 35

537. Dutra do Carmo, E.G. and A.C. Galeão, Feedback Petrov-Galerkin methods for convection-dominated problems 88 (1991) 1- 16

538. Dutt, H.N.V. and A.K. Sreekanth, Design of supersonic airfoils by numerical optimization 19 (1979) 417- 427

539. Dutt, H.N.V. and A.K. Sreekanth, Design of airfoils in incompressible viscous flows by numerical optimization 23 (1980) 355- 368

540. Dvorkin, E.N. and A.P. Assanelli, 2D finite elements with displacement interpolated embedded localization lines: The analysis of fracture in frictional materials 90 (1991) 829- 844

541. Dwyer, H.A. and S. Ibrani, Time accurate solutions of the incompressible and three-dimensional Navier-Stokes equations 75 (1989) 333- 341

542. Dyachenko, V.F., The free point method for problems of continuous media 2 (1973) 265- 277

543. Edlund, U. and A. Klarbring, Analysis of elastic and elastic-plastic adhesive joints using a mathematical programming approach 78 (1990) 19- 47

544. Edlund, U. and A. Klarbring, A geometrically nonlinear model of the adhesive joint problem and its numerical treatment 96 (1992) 329- 350

545. Eggert, G.M. and P.R. Dawson, A viscoplastic formulation with elasticity for transient metal forming 70 (1988) 165- 190

546. Eidsheim, O.M. and P.K. Larsen, Nonlinear analysis of elasto-plastic shells by hybrid stress finite elements 34 (1982) 989-1018

547. Eiseman, P.R., Adaptive grid generation 64 (1987) 321- 376

548. Eiseman, P.R., Control point forms for interactive grid manipulation 91 (1991) 1151-1156

549. Eisenberger, M., On exact solutions for beam-columns on two-parameter elastic foundations 76 (1989) 95- 97

550. Ekebjærg, L. and P. Justesen, An explicit scheme for advection-diffusion modelling in two dimensions 88 (1991) 287- 297

551. El Misiry, A.E.M. and E.L. Ortiz, Tau-lines: A new hybrid approach to the numerical treatment of crack problems based on the Tau method 56 (1986) 265- 282

552. Elishakoff, I. and J. Hollkamp, Computerized symbolic solution for a nonconservative system in which instability occurs by flutter in one range of a parameter and by divergence in another 62 (1987) 27- 46

553. Elishakoff, I. and F. Pellegrini, Exact solutions for buckling of some divergence-type nonconservative systems in terms of Bessel and Lommel functions 66 (1988) 107- 119

554. Elishakoff, I. and I. Lottati, Divergence and flutter of nonconservative systems with intermediate support 66 (1988) 241- 250

555. Elishakoff, I. and C.W. Bert, Comparison of Rayleigh's noninteger-power method with Rayleigh-Ritz method 67 (1988) 297- 309

556. Elishakoff, I. and J. Tang, Buckling of polar orthotropic circular plates on elastic foundation by computerized symbolic algebra 68 (1988) 229- 247

557. Elishakoff, I. and B. Pletner, Analysis of buckling by computer algebra 88 (1991) 299- 309

558. Elperin, T. and O. Igra, About the choice of uniformly distributed sequences to be used in the random choice method 57 (1986) 181- 189

559. Engquist, B. and H.-O. Kreiss, Difference and finite element methods for hyperbolic differential equations 17/18 (1979) 581- 596

560. Eraslan, A.N. and R.C. Brown, A simple iterative procedure for reducing stiffness and computer memory in reactive flow problems 64 (1987) 61- 77

561. Eriksson, L.-E., Flow solution on a dual-block grid around an airplane 64 (1987) 79- 93

562. Eriksson, L.-E., Simulation of transonic flow in radial compressors 64 (1987) 95- 111

563. Espedal, M.S. and R.E. Ewing, Characteristic Petrov-Galerkin subdomain methods for two-phase immiscible flow 64 (1987) 113- 135

564. Eterovic, A.L. and K.-J. Bathe, A note on the use of the additive decomposition of the strain tensor in finite deformation inelasticity 93 (1991) 31- 38

565. Eterovic, J.E., O.M. Barturen and H.O. Quaranta, Behaviour of a rectangular wing in a supersonic flow - dynamic pressure and normal force analysis in the range 1.3-4.0 Mach 53 (1985) 91- 94

566. Evans, D.J. and C.C. Rick, The determination of the eigenvalues of large sparse symmetric matrices 22 (1980) 309- 325

567. Evans, D.J. and E.A. Lipitakis, A normalized implicit conjugate gradient method for the solution of large sparse systems of linear equations 23 (1980) 1- 19

568. Evans, D.J. and M.J. Biggins, Peripheral block over-relaxation methods for triangular grids 27 (1981) 63- 80

569. Evans, D.J. and C.P. Murphy, The solution of the biharmonic equation in a rectangular region by Chebyshev series 27 (1981) 81- 99

570. Evans, D.J., A. Hadjidimos and D. Noutsos, Parallel solution of linear systems by quadrant interlocking factorisation methods 29 (1981) 97- 107

571. Evans, D.J. and J. Shanhchi, Preconditioned iterative methods for the large sparse symmetric eigenvalue problem 31 (1982) 251- 264

572. Evans, D.J. and C.R. Gane, A.D.I. methods for the solution of diffusion problems in $r-\theta$ geometry 31 (1982) 281- 295

573. Evans, D.J. and M.S. Sahimi, The solution of nonlinear parabolic partial differential equations by the alternating group explicit (AGE) method 84 (1990) 15- 42

574. Ewing, R.E., T.F. Russell and M.F. Wheeler, Convergence analysis of an approximation of miscible displacement in porous media by mixed finite elements and a modified method of characteristics 47 (1984) 73- 92

575. Ewing, R.E. and R.F. Heinemann, Mixed finite element approximation of phase velocities in compositional reservoir simulation 47 (1984) 161- 175

576. Ewing, R.E., Finite element methods for nonlinear flows in porous media 51 (1985) 421- 439

577. Ewing, R.E., Efficient adaptive procedures for fluid-flow applications 55 (1986) 89- 103

578. Ewing, R.E., R.F. Heinemann, J.V. Koebbe and U.S. Prasad, Velocity weighting techniques for fluid displacement problems 64 (1987) 137- 151

579. Ewing, R.E., A posteriori error estimation 82 (1990) 59- 72

580. Ewing, R.E., J. Shen and J. Wang, Application of superconvergence to problems in the simulation of miscible displacement 89 (1991) 73- 84

581. Eymard, R., T. Gallouët and P. Joly, Hybrid finite element techniques for oil recovery simulation 74 (1989) 83- 98

582. Fabrikant, V., S.V. Hoa and T.S. Sankar, On the approximate solution of singular integral equations 29 (1981) 19- 33

583. Faille, I., A control volume method to solve an elliptic equation on a two-dimensional irregular mesh 100 (1992) 275- 290

584. Fair, W. and J. Wimp, The τ -method and Fredholm integral equations 11 (1977) 207- 214

585. Farcy, A. and T. Alziary de Roquefort, Pseudo-spectral multi-domain method for incompressible viscous flow computation 80 (1990) 337- 346

586. Farhat, C. and L. Crivelli, A general approach to nonlinear FE computations on shared-memory multiprocessors 72 (1989) 153- 171

587. Farhat, C. and N. Sobh, A consistency analysis of a class of concurrent transient implicit/explicit algorithms (see also 92 (1991) 397-398) 84 (1990) 147- 162

588. Farhat, C., K.C. Park and Y. Dubois-Pelerin, An unconditionally stable staggered algorithm for transient finite element analysis of coupled thermoelastic problems 85 (1991) 349- 365

589. Farhat, C. and M. Geradin, Using a reduced number of Lagrange multipliers for assembling parallel incomplete field finite element approximations 97 (1992) 333- 354

590. Farshad, M., G. Karami and M.R. Banan, A theoretical and numerical finite element analysis of spatial rod systems 73 (1989) 111- 132

591. Faruque, M.O. and M. Zaman, A mixed-variational approach for the analysis of circular plate-elastic halfspace interaction 92 (1991) 75- 86

592. Fauchon, D., P.A. Tanguy and R.E. Hayes, A finite element computation of moderate Reynolds fluid flow using a modified Marquardt method 70 (1988) 139- 149

593. Fawzi, T.H. and Y.A. Safar, Boundary methods for the analysis and design of high-voltage insulators 60 (1987) 343- 369

594. Felippa, C.A. and K.C. Park, Direct time integration methods in nonlinear structural dynamics 17/18 (1979) 277- 313

595. Felippa, C.A. and K.C. Park, Staggered transient analysis procedures for coupled mechanical systems: formulation 24 (1980) 61- 111

596. Felippa, C.A. and J.A. DeRuntz, Finite element analysis of shock-induced hull cavitation 44 (1984) 297- 337

597. Felippa, C.A. and P.G. Bergan, A triangular bending element based on an energy-orthogonal free formulation 61 (1987) 129- 160

598. Figueira-Nieto, J., Mixed finite element solution for the Navier-Stokes equations 42 (1984) 89- 106

599. Fischer, K., On the calculation of higher derivatives in finite elements 7 (1976) 323- 330

600. Fischer, P.F., Analysis and application of a parallel spectral element method for the solution of the Navier-Stokes equations

601. Fish, J. and T. Belytschko, A finite element with a unidirectionally enriched strain field for localization analysis

602. Fitzsimons, C.J., J.J.H. Miller, S. Wang and C.H. Wu, Hexahedral finite elements for the stationary semiconductor device equation

603. Flanagan, D.P. and L.M. Taylor, An accurate numerical algorithm for stress integration with finite rotations

604. Fletcher, C.A.J., An improved finite element formulation derived from the method of weighted residuals

605. Fletcher, C.A.J., On the application of a least squares residual-fitting finite element formulation to fluid flow problems

606. Fletcher, C.A.J., On an alternating direction implicit finite element method for flow problems

607. Fletcher, C.A.J., The group finite element formulation

608. Fletcher, C.A.J. and K. Srinivas, Stream function vorticity revisited

609. Fletcher, C.A.J. and K. Srinivas, On the role of mass operators in the group finite element formulation

610. Fleury, C., A unified approach to structural weight minimization

611. Fleury, C. and G. Sander, Dual methods for optimizing finite element flexural systems

612. Foale, S. and J.M.T. Thompson, Geometrical concepts and computational techniques of nonlinear dynamics

613. Fomin, V.M., V.P. Shapeev and N.N. Yanenko, Modelling of continuum mechanics problems with large deformations

614. Förster, K., Technically oriented algorithms for unsteady pipe flow

615. Forsyth Jr., P. and H. Rasmussen, A Kantorovich method of solution of time-dependent electrochemical machining problems

616. Forsyth, P.A., Comparison of the single-phase and two-phase numerical model formulation for saturated-unsaturated groundwater flow

617. Fortin, A., M. Fortin and P. Tanguy, Numerical simulation of viscous flows in hydraulic turbomachinery by the finite element method

618. Fortin, A., D. Côté and P.A. Tanguy, On the imposition of friction boundary conditions for the numerical simulation of Bingham fluid flows

619. Fortin, M. and R. Pierre, On the convergence of the mixed method of Crochet and Marchal for viscoelastic flows

620. Fox, D.D and J.C. Simo, A drill rotation formulation for geometrically exact shells

621. Franca, L.P. and T.J.R. Hughes, Two classes of mixed finite element methods

622. Franca, L.P. and E.G. Dutra do Carmo, The Galerkin gradient least-squares method

623. Franca, L.P., Analysis and finite element approximation of compressible and incompressible linear isotropic elasticity based upon a variational principle

624. Franca, L.P., S.L. Frey and T.J.R. Hughes, Stabilized finite element methods: I. Application to the advective-diffusive model

80 (1990) 483- 491

78 (1990) 181- 200

84 (1990) 43- 57

62 (1987) 305- 320

15 (1978) 207- 222

24 (1980) 251- 267

30 (1982) 307- 322

37 (1983) 225- 244

41 (1983) 297- 322

46 (1984) 313- 327

20 (1979) 17- 38

37 (1983) 249- 275

89 (1991) 381- 394

32 (1982) 157- 197

2 (1973) 279- 303

23 (1980) 129- 141

69 (1988) 243- 259

58 (1986) 337- 358

88 (1991) 97- 109

73 (1989) 341- 350

98 (1992) 329- 343

69 (1988) 89- 129

74 (1989) 41- 54

76 (1989) 259- 273

95 (1992) 253- 276

625. Franca, L.P. and S.L. Frey, Stabilized finite element methods: II. The incompressible Navier-Stokes equations 99 (1992) 209- 233

626. Franchi, A. and M.Z. Cohn, Computer analysis of elastic-plastic structures 21 (1980) 271- 294

627. Franchi, A. and F. Genna, A numerical scheme for integrating the rate plasticity equations with an "a priori" error control 60 (1987) 317- 342

628. Franchi, A. and F. Genna, A stable/neutral equilibrium path for the numerical solution of elastic-plastic softening problems 90 (1991) 921- 942

629. Francken, P., M.O. Deville and E.H. Mund, On the spectrum of the iteration operator associated to the finite element preconditioning of Chebyshev collocation calculations 80 (1990) 295- 304

630. Frangopol, D.M., A reliability-based optimization technique for automatic plastic design 44 (1984) 105- 117

631. Frederick, J.W., R.J. Ribando and H.G. Wood, A finite difference simulation of a continuous flow centrifuge 93 (1991) 401- 414

632. French, D.A. and S. Jensen, Behaviour in the large of numerical solutions to one-dimensional nonlinear viscoelasticity by continuous time Galerkin methods 86 (1991) 105- 124

633. Friberg, O., A set of parameters for finite rotations and translations 66 (1988) 163- 171

634. Fried, I. and J.A. Metzler, Conjugate gradient solution of a finite element elastic problem with high Poisson ratio 15 (1978) 83- 84

635. Fried, I., Accuracy of string element mass matrix 20 (1979) 317- 321

636. Fried, I., Meaningful existence of finite element solutions to off-limit problems 22 (1980) 229- 240

637. Fried, I., Stability and equilibrium of the straight and curved elastica-finite element computation 28 (1981) 49- 61

638. Fried, I., Nonlinear finite element computation of the equilibrium, stability and motion of the extensional beam and ring 38 (1983) 29- 44

639. Fried, I., On a deficiency in unconditionally stable explicit time-integration methods in elastodynamics and heat transfer 46 (1984) 195- 200

640. Fried, I., Orthogonal trajectory accession to the nonlinear equilibrium curve 47 (1984) 283- 297

641. Fried, I., Nonlinear finite element analysis of the thin elastic shell of revolution 48 (1985) 283- 299

642. Fried, I., Large-deflection computation of the plastica 49 (1985) 163- 173

643. Fried, I., A. Johnson and A. Tessler, Minimal-degree thin triangular plate and shell bending finite elements of order two and four 56 (1986) 283- 307

644. Fried, I., Round-off errors in the stiffness equation 57 (1986) 245- 252

645. Fried, I. and A.R. Johnson, Nonlinear computation of axisymmetric solid rubber deformation 67 (1988) 241- 253

646. Fried, I. and A.R. Johnson, A note on elastic energy density functions for largely deformed compressible rubber solids 69 (1988) 53- 64

647. Friedman, M. and Y. Yavin, On the numerical solution of a nonlinear partial differential equation related to the optimal control of a noisy oscillator 8 (1976) 349- 355

648. Friedman, M. and Y. Yavin, On the numerical solution of two coupled nonlinear partial integro-differential equations related to the optimal control of a nonlinear noisy oscillator 16 (1978) 37- 46

649. Frik, G. and T.L. Johnsen, Note on the ill-conditioned eigenvalue problem in elastic vibrations 6 (1975) 65- 77

650. Fröhlich, J. and R. Peyret, Calculations of non-Boussinesq convection by a pseudospectral method 80 (1990) 425- 433

651. Fröhlich, J. and R. Peyret, A spectral algorithm for low Mach number combustion 90 (1991) 631- 642

652. Fuehrer, C. and O. Wallrapp, A computer-oriented method for reducing linearized multibody system equations by incorporating constraints 46 (1984) 169- 175

653. Fung, K.-Y., J. Tripp and B. Goble, Adaptive refinement with truncation error injection 66 (1988) 1- 16

654. Gabutti, B., P. Lepora and G. Merlo, Numerical solution of a large deflection problem 6 (1975) 31- 48

655. Galeão, A.C. and E.G. Dutra do Carmo, A consistent approximate upwind Petrov-Galerkin method for convection-dominated problems 68 (1988) 83- 95

656. Gall, D.A., The solution of linear, constant-coefficient, ordinary differential equations with APL 1 (1972) 189- 196

657. Gamin, W., A method of large finite elements 11 (1977) 351- 365

658. Gambolati, G., Numerical models in land subsidence control 5 (1975) 227- 237

659. Gambolati, G. and A. Perdon, Minimal eigenvalue of large sparse matrices by an efficient reverse power-conjugate gradient scheme 41 (1983) 1- 10

660. Gambolati, G., F. Sartoretto and P. Florian, An orthogonal accelerated deflation technique for large symmetric eigenproblems 94 (1992) 13- 23

661. Ganjoo, D.K. and T.E. Tezduyar, Petrov-Galerkin formulations for electrochemical processes 65 (1987) 61- 83

662. Ganjoo, D.K., T.E. Tezduyar and W.D. Goodrich, A new formulation for numerical simulation of electrophoresis separation processes 75 (1989) 515- 530

663. Gao, X. and Q. Zhang, Multi-step numerical integrators for time-dependent vibrating systems 69 (1988) 45- 52

664. García de Jalón, J., J. Unda and A. Avello, Natural coordinates for the computer analysis of multibody systems 56 (1986) 309- 327

665. Gardner, L.R.T., G.A. Gardner and A.H.A. Ali, Simulations of solitons using quadratic spline finite elements 92 (1991) 231- 243

666. Garg, V.K., Improved shooting techniques for linear boundary value problems 22 (1980) 87- 99

667. Garg, V.K. and S.C. Gupta, Stability of the nonparallel developing flow in a channel 29 (1981) 259- 269

668. Garg, V.K. and S.C. Gupta, Stability of developing flow in an annulus. Part II. Non-axisymmetric disturbances 31 (1982) 61- 68

669. Garg, V.K. and S.C. Gupta, Stability of nonparallel developing flow in an annulus 35 (1982) 35- 46

670. Garg, V.K., Throughflow analysis of axial flow turbines 37 (1983) 129- 137

671. Garg, V.K., Computation of three-dimensional parabolic laminar flows 53 (1985) 207- 221

672. Garnier, C., P. Rideau and Y. Papegay, Modelisation dynamique littérale 75 (1989) 215- 225

673. Gartling, D.K. and E.B. Becker, Finite element analysis of viscous, incompressible fluid flow - Part 1. Basic methodology 8 (1976) 51- 60

674. Gartling, D.K. and E.B. Becker, Finite element analysis of viscous, incompressible fluid flow - Part 2. Applications 8 (1976) 127- 138

675. Gartling, D.K., Convective heat transfer analysis by the finite element method 12 (1977) 365- 382

676. Gastaldi, F., A. Quarteroni and G. Sacchi Landriani, Coupling of two-dimensional hyperbolic and elliptic equations 80 (1990) 347- 354

677. Gaudrat, V.F., A Newton type algorithm for plastic limit analysis 88 (1991) 207- 224

678. Gauthier, S., A semi-implicit collocation method: Application to two-dimensional compressible convection 80 (1990) 435- 442

679. Gehani, N., A new data structure - the grid 11 (1977) 295- 308

680. Gekeler, E. and T.L. Johnsen, Galerkin-Obrechkoff methods and hyperbolic initial boundary value problems with damping 10 (1977) 359- 370

681. Gellert, M. and M.E. Laursen, Formulation and convergence of a mixed finite element method applied to elastic arches of arbitrary geometry and loading 7 (1976) 285- 302

682. George, P.L., F. Hecht and E. Saltel, Automatic mesh generator with specified boundary 92 (1991) 269- 288

683. Geymonat, G., M. Rosati and V. Valente, Numerical analysis for eversion in elastic spherical caps equilibrium 75 (1989) 39- 52

684. Ghosh, S. and N. Kikuchi, An arbitrary Lagrangian-Eulerian finite element method for large deformation analysis of elastic-viscoplastic solids 86 (1991) 127- 188

685. Ginsburg, S. and M. Gellert, Numerical solution of static and dynamic nonlinear multi-degree-of-freedom systems 23 (1980) 111- 125

686. Girrens, S.P. and F.W. Smith, Finite element analysis of coupled constituent diffusion in thermoelastic solids 62 (1987) 209- 223

687. Givler, R.C., D.K. Gartling, M.S. Engelman and V. Haroutunian, Navier-Stokes simulations of flow past three-dimensional submarine models 87 (1991) 175- 200

688. Givoli, D. and J.B. Keller, A finite element method for large domains 76 (1989) 41- 66

689. Givoli, D. and L. Rivkin, A finite element scheme based on the simplified Reissner equations for shells of revolution 93 (1991) 111- 124

690. Givoli, D., A spatially exact non-reflecting boundary condition for time dependent problems 95 (1992) 97- 113

691. Givoli, D., I. Elishakoff and Y. Stavsky, A boundary-perturbation finite element method for plane elasticity problems 96 (1992) 45- 63

692. Glass, J. and W. Rodi, A higher order numerical scheme for scalar transport 31 (1982) 337- 358

693. Glowinski, R. and A. Marrocco, Analyse numérique du champ magnétique d'un alternateur par éléments finis et sur-relaxation ponctuelle non linéaire 3 (1974) 55- 85

694. Glowinski, R. and A. Marrocco, Numerical solution of two-dimensional magnetostatic problems by augmented Lagrangian methods 12 (1977) 33- 46

695. Glowinski, R., Q.V. Dinh and J. Periaux, Domain decomposition methods for nonlinear problems in fluid dynamics 40 (1983) 27- 109

696. Gogel, T.H., M. Auweter-Kurtz, T.M. Götz, E.W. Messerschmid, H.O. Schrade and P.C. Sleziona, Numerical study of high enthalpy flow in a plasma wind tunnel 89 (1991) 425- 434

697. Golley, B.W., The finite element solution of a class of elastica problems
698. Golley, B.W. and W.A. Grice, Prismatic folded plate analysis using finite strip-elements
699. Golse, F., Applications of the Boltzmann equation within the context of upper atmosphere vehicle aerodynamics
700. Golub, G.H. and W.E. Langlois, Direct solution of the equation for the Stokes stream function
701. Goodman, J., R.V. Kohn and L. Reyna, Numerical study of a relaxed variational problem from optimal design
702. Goudreau, G.L. and R.L. Taylor, Evaluation of numerical integration methods in elastodynamics
703. Goudreau, G.L. and J.O. Hallquist, Recent developments in large-scale finite element Lagrangian hydrocode technology
704. Gray, W.H. and N.M. Schnurr, A comparison of the finite element and finite difference methods for the analysis of steady two-dimensional heat conduction problems
705. Greenberg, J.B., Y. Stavski and M. Sabag, Eigenfrequencies of anisotropic composite shells of revolution having nonuniform supports
706. Greenspan, D. and D. Schultz, Natural convection in an enclosure with localized heating from below
707. Greenspan, D., An arithmetic particle theory of fluid dynamics
708. Greenspan, D., A particle model of the Stefan problem
709. Greenspan, D., Particle modeling of cavity flow on a vector computer
710. Gregoire, J.P., J.C. Nedelec and J. Planchard, A method of finding the eigenvalues and eigenfunctions of self-adjoint elliptic operators
711. Gresho, P.M., Some current CFD issues relevant to the incompressible Navier-Stokes equations
712. Greywall, M.S., Streamwise computation of duct flows
713. Greywall, M.S., Streamwise computation of three-dimensional parabolic flows
714. Grierson, D.E., A. Franchi, O. DeDonato and L. Corradi, Mathematical programming and nonlinear finite element analysis
715. Griffiths, D.F. and J. Lorenz, An analysis of the Petrov-Galerkin finite element method
716. Griffiths, D.F., A.R. Mitchell and J.L. Morris, A numerical study of the nonlinear Schrödinger equation
717. Grotkop, G., Finite element analysis of long-period water waves
718. Gruber, R., R. Iacono, S. Semenzato and H.P. Zehrfeld, Finite element methods to calculate ideal magnetohydrodynamic flow equilibria in Tokamaks
719. Gruber, R., S. Merazzi, W.A. Cooper, G.Y. Fu, U. Schwenn and D.V. Anderson, Ideal magnetohydrodynamic stability computations for three-dimensional magnetic fusion devices
720. Gruver, W.A. and N.H. Engersbach, Optimal impulsive trajectory rendezvous by mathematical programming
721. Grygiel, J.-M. and P.A. Tanguy, Finite element solution for advection-dominated thermal flows
46 (1984) 159- 168
76 (1989) 101- 118
75 (1989) 299- 316
19 (1979) 391- 399
57 (1986) 107- 127
2 (1973) 69- 97
33 (1982) 725- 757

6 (1975) 243- 245
70 (1988) 91- 102

3 (1974) 1- 10
3 (1974) 293- 303
13 (1978) 95- 104
66 (1988) 291- 299

8 (1976) 201- 214

87 (1991) 201- 252
21 (1980) 231- 247

36 (1983) 71- 93

17/18 (1979) 497- 518

14 (1978) 39- 64

45 (1984) 177- 215
2 (1973) 147- 157

52 (1985) 675- 682

91 (1991) 1135-1149
11 (1977) 165- 174
93 (1991) 277- 289

722. Guedes, J.M. and N. Kikuchi, Preprocessing and postprocessing for materials based on the homogenization method with adaptive finite element methods 83 (1990) 143- 198

723. Guillard, H. and R. Peyret, On the use of spectral methods for the numerical solution of stiff problems 66 (1988) 17- 43

724. Guillard, H. and J.-A. Désidéri, Iterative methods with spectral preconditioning for elliptic equations 80 (1990) 305- 312

725. Güldenpfennig, J. and R.J. Clifton, On the computation of plastic stress-strain relations for polycrystalline metals 10 (1977) 141- 149

726. Gunzburger, M.D. and H.G. Wood III, A finite element method for the Onsager pancake equation 31 (1982) 43- 59

727. Gunzburger, M.D., C.H. Liu and R.A. Nicolaides, A finite element method for diffusion dominated unsteady viscous flows 39 (1983) 55- 67

728. Guo, Y.L. and S.-F. Chen, Collapse analysis of steel plate by finite strip method 93 (1991) 319- 333

729. Gupta, K.K., On a finite dynamic element method for free vibration analysis of structures 9 (1976) 105- 120

730. Gupta, R.S., Moving grid method without interpolations 4 (1974) 143- 152

731. Gupta, R.S. and D. Kumar, A modified variable time step method for the one-dimensional Stefan problem 23 (1980) 101- 109

732. Gupta, R.S. and D. Kumar, Complete numerical solution of the oxygen diffusion problem involving a moving boundary 29 (1981) 233- 239

733. Gupta, R.S. and D. Kumar, Solution of a one-dimensional phase change problem with non-uniform initial temperature 37 (1983) 139- 150

734. Gupta, R.S. and A. Kumar, Variable time-step method with coordinate transformation 44 (1984) 91- 103

735. Gupta, R.S. and A. Kumar, Approximate analytical methods for multi-dimensional Stefan problems 56 (1986) 127- 138

736. Gupta, R.S. and N.C. Banik, Constrained integral method for solving moving boundary problems 67 (1988) 211- 221

737. Gupta, S.C. and V.K. Garg, Stability of developing flow in a two-dimensional channel - symmetric vs. antisymmetric disturbances 27 (1981) 363- 368

738. Gupta, S.C. and V.K. Garg, Developing flow in a concentric annulus 28 (1981) 27- 35

739. Gupta, S.C. and V.K. Garg, Stability of developing flow in an annulus. Part I. Axisymmetric disturbances 28 (1981) 207- 216

740. Gurari, A. and F.P.J. Rimrott, Application of funicular polygon method to inelastic buckling analysis of plates 76 (1989) 157- 170

741. Gustafsson, I. and G. Lindskog, A preconditioning technique based on element matrix factorizations 55 (1986) 201- 220

742. Gutkowski, W., J. Bauer and Z. Iwanow, Discrete structural optimization 51 (1985) 71- 78

743. Haas, R. and H. Brauchli, Fast solver for plane potential problems with mixed boundary conditions 89 (1991) 543- 556

744. Habashi, W.G., V.-N. Nguyen and M.V. Bhat, Efficient direct solvers for large-scale computational fluid dynamics problems 87 (1991) 253- 265

745. Haber, R.B. and J.F. Abel, Initial equilibrium solution methods for cable reinforced membranes, Part I - Formulations 30 (1982) 263- 284

746. Haber, R.B. and J.F. Abel, Initial equilibrium solution methods for cable reinforced membranes, Part II - Implementation
30 (1982) 285- 306

747. Haber, R.B., A mixed Eulerian-Lagrangian displacement model for large-deformation analysis in solid mechanics (Corrigendum, 49 (1985) 121)
43 (1984) 277- 292

748. Hadhri, T., A mixed finite element method for the elastoplastic plate bending and buckling
50 (1985) 1- 23

749. Haftka, R.T. and R.V. Grandhi, Structural shape optimization - a survey
57 (1986) 91- 106

750. Haftka, R.T., J.A. Nachlas, L.T. Watson, T. Rizzo and R. Desai, Two-point constraint approximation in structural optimization
60 (1987) 289- 301

751. Hajela, P. and A. Lamb, Automated structural synthesis for nondeterministic loads
57 (1986) 25- 36

752. Haken, H., Order in chaos
52 (1985) 635- 652

753. Hallquist, J.O., G.L. Goudreau and D.J. Benson, Sliding interfaces with contact-impact in large-scale Lagrangian computations
51 (1985) 107- 137

754. Halpern, J., Travelling time on dense networks
10 (1977) 1- 11

755. Han, T., J.A.C. Humphrey and B.E. Launder, A comparison of hybrid and quadratic-upstream differencing in high Reynolds number elliptic flows (see also 35 (1982) 349-350)
29 (1981) 81- 95

756. Hanafy, A.A.R., Multi-search optimization techniques
8 (1976) 193- 200

757. Hanine, F. and A. Kourta, Performance of turbulence models to predict supersonic boundary layer flows
89 (1991) 221- 235

758. Hansbo, P. and A. Szepessy, A velocity-pressure streamline diffusion finite element method for the incompressible Navier-Stokes equations
84 (1990) 175- 192

759. Hansbo, P. and C. Johnson, Adaptive streamline diffusion methods for compressible flow using conservation variables
87 (1991) 267- 280

760. Hansbo, P., The characteristic streamline diffusion method for convection-diffusion problems
96 (1992) 239- 253

761. Hansbo, P., The characteristic streamline diffusion method for the time-dependent incompressible Navier-Stokes equations
99 (1992) 171- 186

762. Hanson, J.N., Computer aided symbolic solution of multi-point boundary value problems occurring in physics and engineering
25 (1981) 149- 177

763. Harari, I. and T.J.R. Hughes, Finite element methods for the Helmholtz equation in an exterior domain: Model problems
87 (1991) 59- 96

764. Harari, I. and T.J.R. Hughes, A cost comparison of boundary element and finite element methods for problems of time-harmonic acoustics
97 (1992) 77- 102

765. Harari, I. and T.J.R. Hughes, Analysis of continuous formulations underlying the computation of time-harmonic acoustics in exterior domains
97 (1992) 103- 124

766. Harari, I. and T.J.R. Hughes, What are C and h ? Inequalities for the analysis and design of finite element methods
97 (1992) 157- 192

767. Harari, I. and T.J.R. Hughes, Galerkin/least-squares finite element methods for the reduced wave equation with non-reflecting boundary conditions in unbounded domains
98 (1992) 411- 454

768. Harbord, R. and M. Gellert, Progress in symmetric formulation of the incompressible Navier-Stokes equations
83 (1990) 201- 209

769. Harris, P.J., A boundary element method for the Helmholtz equation using finite part integration 95 (1992) 331- 342

770. Harrison, D., T.J.W. Ward and J.R. Whiteman, Finite element analysis of plates with nonlinear properties 34 (1982) 1019-1034

771. Haslinger, J. and P. Neittaanmäki, On different finite element methods for approximating the gradient of the solution to the Helmholtz equation 42 (1984) 131- 148

772. Hassan, A.A., H. Sobieczky and A.R. Seebass, Shock-free transonic airfoils with a given pressure distribution 58 (1986) 285- 304

773. Hassan, K., Application of lower order integration schemes in linear shell problems 25 (1981) 279- 286

774. Hassan, O., K. Morgan and J. Peraire, An implicit/explicit scheme for compressible viscous high speed flows 76 (1989) 245- 258

775. Haug, E.J. and J.S. Arora, Design sensitivity analysis of elastic mechanical systems 15 (1978) 35- 62

776. Hayes, L., G. Pinder and M. Celia, Alternating-direction collocation for rectangular regions 27 (1981) 265- 277

777. Hayes, L.J. and S.V. Krishnamachari, Alternating direction along flow lines in a fluid flow problem 47 (1984) 187- 203

778. Hayes, L.J., S.R. Kennon and G.S. Dulikravich, Grid orthogonalization for curvilinear alternating-direction techniques 59 (1986) 141- 154

779. Hayhurst, D.R. and A.J. Krzeczkowski, Numerical solution of creep problems 20 (1979) 151- 171

780. Healey, T.J., A group-theoretic approach to computational bifurcation problems with symmetry 67 (1988) 257- 295

781. Heinrich, J.C. and R.S. Marshall, Comment on: A finite element numerical solution of natural convection in enclosed cavities 25 (1981) 49- 50

782. Heinrich, J.C., Finite element approximation to buoyancy-driven flows with cyclic boundary conditions 48 (1985) 91- 100

783. Heinrich, J.C. and C.C. Yu, Finite element simulation of buoyancy-driven flows with emphasis on natural convection in a horizontal circular cylinder 69 (1988) 1- 27

784. Heinrich, J.C., Numerical simulations of the thermosolutal instability during directional solidification of a binary alloy 69 (1988) 65- 88

785. Heinrich, J.C., S. Felicelli and D.R. Poirier, Vertical solidification of dendritic binary alloys 89 (1991) 435- 461

786. Heinrich, J.C. and D. Connolly, Three-dimensional finite element analysis of self-acting foil bearings 100 (1992) 31- 43

787. Heinrichs, W., Algebraic spectral multigrid methods 80 (1990) 281- 286

788. Heise, U., Comparison of round-off errors in integral equation formulations of elastostatical boundary value problems 28 (1981) 145- 177

789. Heise, U., Combination of the boundary integral equation method and the extrapolation method 38 (1983) 291- 346

790. Heise, U., Asymptotic expansions of results of the boundary integral equation method for plane elastostatic problems 46 (1984) 39- 64

791. Heise, U., Dependence of the round-off error in the solution of boundary integral equations on a geometrical scale factor 62 (1987) 115- 126

792. Heise, U., Singular and fundamental solutions to potential and elasticity problems for a Riemann surface 83 (1990) 211- 230

793. Heise, U., Fundamental solutions of the Laplace operator and of Navier's elasticity operator for Riemann surfaces with two branch points 91 (1991) 1301-1325

794. Heise, U., Fundamental solutions to Laplace's potential operator and to Navier's elasticity operator for Riemann surfaces with finite and infinite numbers of sheets 96 (1992) 33- 43
21 (1980) 1- 15

795. Hendry, J.A., Singular problems and the global element method 35 (1982) 271- 283

796. Hendry, J.A., L.M. Delves and J. Mohamed, Iterative solution of the global element equations 54 (1986) 187- 195

797. Heng, Z., D. McCommend and B. Tabarrok, Stress determination in edge-cracked anisotropic plates by an extension of boundary-collocation method 97 (1992) 317- 320

798. Heng, Z. and D. McCommend, An improved numerical integration technique for boundary integral evaluation in anisotropic plate problems 36 (1983) 155- 166

799. Heppler, G.R. and J.S. Hansen, The influence of forcing conforming boundaries on a high precision enriched fracture element 54 (1986) 21- 47

800. Heppler, G.R. and J.S. Hansen, A Mindlin element for thick and deep shells 30 (1982) 225- 241

801. Herrera, I. and H. Gourgeon, Boundary methods, c -complete systems for Stokes problems 2 (1973) 1- 15

802. Hess, J.L., Higher order numerical solution of the integral equation for the two-dimensional Neumann problem 4 (1974) 283- 319

803. Hess, J.L., The problem of three-dimensional lifting potential flow and its solution by means of surface singularity distribution 5 (1975) 11- 35

804. Hess, J.L., The use of higher-order surface singularity distributions to obtain improved potential flow solutions for two-dimensional lifting airfoils 5 (1975) 145- 196

805. Hess, J.L., Review of integral-equation techniques for solving potential-flow problems with emphasis on the surface-source method 5 (1975) 297- 308

806. Hess, J.L., Improved solution for potential flow about arbitrary axisymmetric bodies by the use of a higher-order surface-source method 57 (1986) 207- 222

807. Heuser, G.E., R.J. Ribando and H.G. Wood, III, A numerical simulation of inertial waves in a rotating fluid 17/18 (1979) 203- 225

808. Hibbitt, H.D., E.B. Becker and L.M. Taylor, Nonlinear analysis of some slender pipelines 13 (1978) 79- 88

809. Hicks, D.L., The hydrocode convergence problem - Part 1 20 (1979) 303- 316

810. Hicks, D.L., The hydrocode convergence problem - Part 2 49 (1985) 131- 148

811. Hill, R.D. and G.I.N. Rozvany, Prager's layout theory: A nonnumeric computer method for generating optimal structural configurations and weight-influence surfaces 14 (1978) 93- 124

812. Hirt, C.W., J.D. Ramshaw and L.R. Stein, Numerical simulation of three-dimensional flow past bluff bodies 9 (1976) 191- 201

813. Hitchings, D. and P. Ward, The nonlinear steady-state response of cable networks

814. Hlaváček, I., J. Rosenberg, A.E. Beagles and J.R. Whiteman, Variational inequality formulation in strain space and finite element solution of an elasto-plastic problem with hardening 94 (1992) 93- 112

815. Ho, L.-W., Y. Maday, A.T. Patera and E.M. Rønquist, A high-order Lagrangian-decoupling method for the incompressible Navier-Stokes equations 80 (1990) 65- 90

816. Ho, L.-W. and A.T. Patera, A Legendre spectral element method for simulation of unsteady incompressible viscous free-surface flows 80 (1990) 355- 366

817. Hodge, P.G. Jr., Automatic piecewise linearization in ideal plasticity 10 (1977) 249- 272

818. Hoff, C. and P.J. Pahl, Practical performance of the θ_1 -method and comparison with other dissipative algorithms in structural dynamics 67 (1988) 87- 110

819. Hoff, C. and P.J. Pahl, Development of an implicit method with numerical dissipation from a generalized single-step algorithm for structural dynamics 67 (1988) 367- 385

820. Hoff, C., T.J.R. Hughes, G. Hulbert and P.J. Pahl, Extended comparison of the Hilber-Hughes-Taylor α -method and the Θ_1 -method 76 (1989) 87- 93

821. Hogge, M.A., Integration operators for first order linear matrix differential equations 11 (1977) 281- 294

822. Hogge, M. and P. Gerrekens, One-dimensional finite element analysis of thermal ablation with pyrolysis 33 (1982) 609- 634

823. Holla, V.S., K.P. Rao, C.B. Asthana and A. Arokkiaswamy, Aerodynamic characteristics of pretensioned elastic membrane rectangular sailwings 44 (1984) 1- 16

824. Holmes, A.G. and C.M.M. Ettles, A study of iterative solution techniques for elliptic partial differential equations with particular reference to the Reynolds equation 5 (1975) 309- 328

825. Holt, M. and T.D. Taylor, High speed flow past a cone with large wall injection velocities 16 (1978) 281- 289

826. Holz, K.-P., A high-order time integration scheme for open channel flow 8 (1976) 117- 124

827. Hopkins, T.R. and R. Wait, A comparison of numerical methods for the solution of quasilinear partial differential equations 9 (1976) 181- 190

828. Hopkins, T.R. and R. Wait, Some quadrature rules for Galerkin methods using B -spline basis functions 19 (1979) 401- 416

829. Horrigmoe, G. and P.G. Bergan, Incremental variational principles and finite element models for nonlinear problems 7 (1976) 201- 217

830. Horrigmoe, G. and P.G. Bergan, Nonlinear analysis of free-form shells by flat finite elements 16 (1978) 11- 35

831. Hromadka II, T.V. and G.C. Pardoén, Application of the CVBEM to nonuniform St. Venant torsion 53 (1985) 149- 161

832. Hryńiewicz, Z., Vibration of a rigid body on an elastic half-plane 24 (1980) 113- 122

833. Hryńiewicz, Z., Dynamic response of a rigid strip on an elastic half-space 25 (1981) 355- 364

834. Hryńiewicz, Z., Coupled vibration of a rigid rectangular block bonded to an elastic half-space 37 (1983) 329- 339

835. Hsiao, K.-M. and H.-C. Hung, Large-deflection analysis of shell structure by using co-rotational total Lagrangian formulation 73 (1989) 209- 225

836. Hsiao, K.-M. and J.-Y. Jang, Dynamic analysis of planar flexible mechanisms by co-rotational formulation 87 (1991) 1- 14

837. Hsieh, C.C. and J.S. Arora, Design sensitivity analysis and optimization of dynamic response 43 (1984) 195- 219

838. Hsieh, C.C. and J.S. Arora, A hybrid formulation for treatment of pointwise state variable constraints in dynamic response optimization 48 (1985) 171- 189

839. Hsieh, C.K. and A.J. Kassab, Complex variable boundary element methods for the solution of potential problems in simply and multiply connected domains 86 (1991) 189- 213

840. Huan, S.-L., B.C. McInnis and E.D. Denman, Identification of structural systems using naturally induced vibration data in the presence of measurement noise 41 (1983) 123- 128

841. Huang, C.-Y. and G.S. Dulikravich, Stream function and stream-function-coordinate (SFC) formulation for inviscid flow field calculations 59 (1986) 155- 157

842. Huang, C.-Y. and G.S. Dulikravich, Fast iterative algorithms based on optimized explicit time stepping 63 (1987) 15- 36

843. Huang, P.G., B.E. Launder and M.A. Leschziner, Discretization of non-linear convection processes: A broad-range comparison of four schemes 48 (1985) 1- 24
69 (1988) 277- 324

844. Huerta, A. and W.K. Liu, Viscous flow with large free surface motion 8 (1976) 249- 276

845. Hughes, T.J.R., R.L. Taylor, J.L. Sackman, A. Curnier and W. Kanoknukulchai, A finite element method for a class of contact-impact problems 10 (1977) 135- 139

846. Hughes, T.J.R., Unconditionally stable algorithms for nonlinear heat conduction 17/18 (1979) 159- 182

847. Hughes, T.J.R., K.S. Pister and R.L. Taylor, Implicit-explicit finite elements in nonlinear transient analysis 26 (1981) 331- 362

848. Hughes, T.J.R. and W.K. Liu, Nonlinear finite element analysis of shells: Part I. Three-dimensional shells 27 (1981) 167- 181

849. Hughes, T.J.R. and W.K. Liu, Nonlinear finite element analysis of shells - Part II. Two-dimensional shells 29 (1981) 329- 349

850. Hughes, T.J.R., W.K. Liu and T.K. Zimmermann, Lagrangian-Eulerian finite element formulation for incompressible viscous flows 36 (1983) 241- 254

851. Hughes, T.J.R., I. Levit and J. Winget, An element-by-element solution algorithm for problems of structural and solid mechanics 39 (1983) 69- 82

852. Hughes, T.J.R. and E. Carnoy, Nonlinear finite element shell formulation accounting for large membrane strains 45 (1984) 217- 284

853. Hughes, T.J.R. and T.E. Tezduyar, Finite element methods for first-order hyperbolic systems with particular emphasis on the compressible Euler equations 54 (1986) 223- 234

854. Hughes, T.J.R., L.P. Franca and M. Mallet, A new finite element formulation for computational fluid dynamics: I. Symmetric forms of the compressible Euler and Navier-Stokes equations and the second law of thermodynamics 54 (1986) 341- 355

855. Hughes, T.J.R., M. Mallet and A. Mizukami, A new finite element formulation for computational fluid dynamics: II. Beyond SUPG

856. Hughes, T.J.R. and M. Mallet, A new finite element formulation for computational fluid dynamics: III. The generalized streamline operator for multidimensional advective-diffusive systems (Errata, 62 (1987) 111) 58 (1986) 305- 328

857. Hughes, T.J.R. and M. Mallet, A new finite element formulation for computational fluid dynamics: IV. A discontinuity-capturing operator for multidimensional advective-diffusive systems 58 (1986) 329- 336

858. Hughes, T.J.R., L.P. Franca and M. Balestra, A new finite element formulation for computational fluid dynamics: V. Circumventing the Babuška-Brezzi condition: A stable Petrov-Galerkin formulation of the Stokes problem accommodating equal-order interpolations (Errata, 62 (1987) 111) 59 (1986) 85- 99

859. Hughes, T.J.R., R.M. Ferencz and J.O. Hallquist, Large-scale vectorized implicit calculations in solid mechanics on a CRAY X-MP/48 utilizing EBE preconditioned conjugate gradients 61 (1987) 215- 248

860. Hughes, T.J.R., L.P. Franca and M. Mallet, A new finite element formulation for computational fluid dynamics: VI. Convergence analysis of the generalized SUPG formulation for linear time-dependent multidimensional advective-diffusive systems 63 (1987) 97- 112

861. Hughes, T.J.R. and L.P. Franca, A new finite element formulation for computational fluid dynamics: VII. The Stokes problem with various well-posed boundary conditions: Symmetric formulations that converge for all velocity/pressure spaces 65 (1987) 85- 96

862. Hughes, T.J.R. and G.M. Hulbert, Space-time finite element method for elastodynamics: Formulations and error estimates 66 (1988) 339- 363

863. Hughes, T.J.R. and L.P. Franca, A mixed finite element formulation for Reissner-Mindlin plate theory: Uniform convergence of all higher-order spaces 67 (1988) 223- 240

864. Hughes, T.J.R. and F. Brezzi, On drilling degrees of freedom 72 (1989) 105- 121

865. Hughes, T.J.R., L.P. Franca and G.M. Hulbert, A new finite element formulation for computational fluid dynamics: VIII. The Galerkin/least-squares method for advective-diffusive equations 73 (1989) 173- 189

866. Huisman, W.C. and Y. Yavin, Numerical studies of the performance of an optimally controlled nonlinear stochastic oscillator 21 (1980) 171- 191

867. Hulbert, G.M. and T.J.R. Hughes, Space-time finite element methods for second-order hyperbolic equations 84 (1990) 327- 348

868. Hulbert, G.M., Discontinuity-capturing operators for elastodynamics 96 (1992) 409- 426

869. Hurez, P., P.A. Tanguy and F.H. Bertrand, A finite element analysis of die swell with pseudoplastic and viscoplastic fluids 86 (1991) 87- 103

870. Hussaini, M.Y. and K.J. Devasia, An integral solution to a nonlinear diffusion problem 13 (1978) 119- 123

871. Hutchins, G.J. and A.I. Soler, Extended validity of single segment stepwise integration schemes for solution of two-point boundary value problems 1 (1972) 307- 316

872. Idelsohn, S., On the use of deep, shallow or flat shell finite elements for the analysis of thin shell structures 26 (1981) 321- 330

873. Idelsohn, S., G. Laschet and C. Nyssen, Pre- and post-degradation analysis of composite materials with different moduli in tension and compression
30 (1982) 133- 149

874. Idelsohn, S.R. and A. Cardona, A reduction method for nonlinear structural dynamic analysis
49 (1985) 253- 279

875. Iding, R.H., K.S. Pister and R.L. Taylor, Identification of nonlinear elastic solids by a finite element method
4 (1974) 121- 142

876. Ikeda, K. and K. Murota, Bifurcation analysis of symmetric structures using block-diagonalization
86 (1991) 215- 243

877. Imshennik, V.S., O.V. Lokutsievskii, L.G. Khazin, M.D. Gabovich and A.P. Naida, Mathematical simulation and experimental analysis of nonlinear interaction of positive and negative ion beams
9 (1976) 1- 23

878. Ioakimidis, N.I., Two methods for the numerical solution of Bueckner's singular integral equation for plane elasticity crack problems
31 (1982) 169- 177

879. Ioakimidis, N.I., A natural quadrature formula for the numerical evaluation of the MacGregor-Westergaard complex potentials in crack problems
31 (1982) 221- 231

880. Ioakimidis, N.I., A modification of the quadrature method for the direct numerical solution of singular integral equations
46 (1984) 1- 13

881. Ioakimidis, N.I. and M.S. Pitta, Remarks on the Gaussian quadrature rule for finite-part integrals with a second-order singularity
69 (1988) 325- 343

882. Ioakimidis, N.I., Application of the conformal mapping and the complex path-independent integrals to the location of elliptical holes and inclusions in plane elasticity problems
84 (1990) 1- 14

883. Ioakimidis, N.I., Application of computer algebra to the iterative solution of singular integral equations
94 (1992) 229- 237

884. Iranzo, V. and A. Falqués, Some spectral approximations for differential equations in unbounded domains
98 (1992) 105- 126

885. Isaacs, L.T., Automated algebraic integration of products of interpolation functions
23 (1980) 175- 183

886. Iskandar, L. and M.S.E.-D. Mohamedein, Solitary waves interaction for the BBM equation
96 (1992) 361- 372

887. Issa, A. and M.M. Zaman, A cylindrical tank-foundation-halfspace interaction using an energy approach
56 (1986) 47- 60

888. Jaamei, S., F. Frey and P. Jetteur, Nonlinear thin shell finite element with six degrees of freedom per node
75 (1989) 251- 266

889. Jacquotte, O.-P. and J.T. Oden, Analysis of hourglass instabilities and control in underintegrated finite element methods
44 (1984) 339- 363

890. Jacquotte, O.-P., Stability, accuracy, and efficiency of some underintegrated methods in finite element computations
50 (1985) 275- 293

891. Jacquotte, O.-P. and J.T. Oden, An accurate and efficient a posteriori control of hourglass instabilities in underintegrated linear and nonlinear elasticity
55 (1986) 105- 128

892. Jacquotte, O.-P., A mechanical model for a new grid generation method in computational fluid dynamics
66 (1988) 323- 338

893. Jain, M.K. and T. Aziz, Spline function approximation for differential equations
26 (1981) 129- 143

894. Jain, M.K., S.R.K. Iyengar and A.C.R. Pillai, Difference schemes based on splines in compression for the solution of conservation laws
 895. Jain, M.K. and T. Aziz, Cubic spline solution of two-point boundary value problems with significant first derivatives
 896. Jain, M.K., S.R.K. Iyengar and G.S. Subramanyam, Variable mesh methods for the numerical solution of two-point singular perturbation problems
 897. Jain, N.K., K. Singhal and K. Huseyin, On roots of functional lambda matrices
 898. Jain, P.C. and D.N. Holla, General finite difference approximation for the wave equation with variable coefficients using a cubic spline technique
 899. Jain, P.C. and Labib Iskandar, Numerical solutions of the regularized long-wave equation
 900. Jain, R.K. and R. Kumar, A sixth-order modification of the Stiefel-Bettis method for nonlinearly damped oscillators
 901. Jaluria, Y. and A.P. Singh, Temperature distribution in a moving material subjected to surface energy transfer
 902. James, R.M., On the remarkable accuracy of the vortex lattice method
 903. James, R.M., The theory and design of two-airfoil lifting systems
 904. James, R.M., A general analytical method for axisymmetric incompressible potential flow about bodies of revolution
 905. Jameson, A. and W. Schmidt, Some recent developments in numerical methods for transonic flows
 906. Jami, A. and M. Polyzakis, A finite element solution of diffraction problems in unbounded domains
 907. Jang, J.-Y. and W.-J. Chang, Buoyancy-induced inclined boundary layer flow in a saturated porous medium
 908. Jauberteau, F., C. Rosier and R. Temam, A nonlinear Galerkin method for the Navier-Stokes equations
 909. Jawed, A.H. and A.J. Morris, Higher-order updates for dynamic responses in structural optimization
 910. Jehle, U. and H.P. Mlejnek, Application and implementation of approximate explicit models in optimum structural design
 911. Jensen, S. and M. Suri, On the L_2 error for the p -version of the finite element method over polygonal domains
 912. Jiang, B.-N. and C.L. Chang, Least-squares finite elements for the Stokes problem
 913. Jiang, B.-N. and L.A. Povinelli, Least-squares finite element method for fluid dynamics
 914. Jinyun, Y., Symmetric Gaussian quadrature formulae for tetrahedral regions
 915. Jirousek, J. and N. Leon, A powerful finite element for plate bending
 916. Jirousek, J., Basis for development of large finite elements locally satisfying all field equations
 917. Johan, Z., T.J.R. Hughes and F. Shakib, A globally convergent matrix-free algorithm for implicit time-marching schemes arising in finite element analysis in fluids
 38 (1983) 137- 151
 39 (1983) 83- 91
 42 (1984) 273- 286
 40 (1983) 277- 292
 15 (1978) 175- 180
 20 (1979) 195- 201
 72 (1989) 187- 193
 41 (1983) 145- 157
 1 (1972) 59- 79
 10 (1977) 13- 43
 12 (1977) 47- 67
 51 (1985) 467- 493
 29 (1981) 1- 18
 68 (1988) 333- 344
 80 (1990) 245- 260
 49 (1985) 175- 201
 83 (1990) 33- 59
 97 (1992) 233- 243
 78 (1990) 297- 311
 81 (1990) 13- 37
 43 (1984) 349- 353
 12 (1977) 77- 96
 14 (1978) 65- 92
 87 (1991) 281- 304

918. Johan, Z., T.J.R. Hughes, K.K. Mathur and S.L. Johnsson, A data parallel finite element method for computational fluid dynamics on the Connection Machine system
99 (1992) 113- 134

919. Johnsen, T.L., Note on symmetric decomposition of some special symmetric matrices
1 (1972) 301- 306

920. Johnsen, T.L., On the computation of natural modes of an unsupported vibrating structure by simultaneous iteration
2 (1973) 305- 322

921. Johnsen, T.L. and J.R. Roy, On systems of linear equations of the form $A'Ax = b$; error analysis and certain consequences for structural applications
3 (1974) 357- 374

922. Johnson, C., A finite element method for consolidation of clay
16 (1978) 177- 184

923. Johnson, C., U. Nävert and J. Pitkäraanta, Finite element methods for linear hyperbolic problems
45 (1984) 285- 312

924. Johnson, C., Adaptive finite element methods for diffusion and convection problems
82 (1990) 301- 322

925. Johnson, C., A new approach to algorithms for convection problems which are based on exact transport + projection
100 (1992) 45- 62

926. Jonker, B., A finite element dynamic analysis of spatial mechanisms with flexible links
76 (1989) 17- 40

927. Joseph, M., Finite difference representations of vorticity transport
39 (1983) 107- 116

928. Juvanon du Vachat, R., A general formulation for nonlinear initialization of a numerical weather prediction model. Experiments with a shallow-water limited area model
75 (1989) 127- 140

929. Kačianauskas, R. and A. Čyras, The integral yield criterion of finite elements and its application to limit analysis and optimization problems of thin-walled elastic-plastic structures
67 (1988) 131- 147

930. Kalev, I. and J. Gluck, Cyclic elastic-plastic dynamic analysis by the finite element method
10 (1977) 63- 74

931. Kamat, M.P., L.T. Watson and D.J. Vanden Brink, An assessment of quasi-Newton sparse update techniques for nonlinear structural analysis
26 (1981) 363- 375

932. Kamdar, D.S. and D.E. Beskos, Numerical methods for elastic structural stability analysis
19 (1979) 205- 222

933. Kamel, H.A. and L. Chen, Integration of solid modeling and finite element generation
89 (1991) 485- 496

934. Kamoulakos, A., A catenoidal patch test for the inextensional bending of thin shell finite elements
92 (1991) 1- 32

935. Kanagasundaram, S. and B.L. Karihaloo, Limitations of Galerkin's method in optimal design of beam columns
58 (1986) 121- 134

936. Kanarachos, A., P. Makris and M. Koch, Localization of multi-constrained optima and avoidance of local optima in structural optimization problems
51 (1985) 79- 106

937. Kanarachos, A. and C. Provatidis, Performance of mass matrices for the BEM dynamic analysis of wave propagation problems
63 (1987) 155- 165

938. Kanarachos, A. and C. Provatidis, On the symmetrization of the BEM formulation
71 (1988) 151- 165

939. Kane, J.H., B.L. Kashava Kumar and S. Saigal, An arbitrary condensing, noncondensing solution strategy for large scale, multi-zone boundary element analysis 79 (1990) 219- 244

940. Kaneko, I., Complete solutions for a class of elastic-plastic structures (see also 28 (1981) 259) 21 (1980) 193- 209

941. Kaneko, I. and G. Maier, Optimum design of plastic structures under displacement constraints (see also 35 (1982) 119) 27 (1981) 369- 391

942. Kaneko, I., C. Mazzarella and C. Polizzotto, Methods for computing optimal bounds on deformation in the theory of workhardening adaptation 37 (1983) 185- 205

943. Kant, T., Numerical analysis of thick plates 31 (1982) 1- 18

944. Kaplan, B.Z., Economical digital simulation of parametric electromechanical devices 6 (1975) 355- 362

945. Kaplan, B.Z., Use of complex variables for the solution of certain nonlinear systems 13 (1978) 281- 291

946. Kaplan, B.Z., A new method for generating precisely triangular waves, square waves and trapezoidal waves in three phases 37 (1983) 177- 183

947. Kaplan, B.Z. and D. Yardeni, Development of a new three-phase triangular wave oscillator (see also 68 (1988) 249) 63 (1987) 305- 312

948. Karabalis, D.L. and D.E. Beskos, Dynamic response of 3-D embedded foundations by the boundary element method 56 (1986) 91- 119

949. Karafiat, A., On convergence of solutions for FDM with irregular mesh in Neumann problem 72 (1989) 91- 103

950. Karageorghis, A., Numerical solution of a shallow dam problem by a boundary element method 61 (1987) 265- 276

951. Karageorghis, A., Chebyshev spectral methods for solving two-point boundary value problems arising in heat transfer 70 (1988) 103- 121

952. Karageorghis, A., The numerical solution of laminar flow in a re-entrant tube geometry by a Chebyshev spectral element collocation 100 (1992) 339- 358

953. Karamanlidis, D., Finite element analysis of two-dimensional shear flexible frame structures: Nonlinear analysis 67 (1988) 55- 68

954. Karamanlidis, D. and R. Jasti, Finite element analysis of two-dimensional shear flexible frame structures: Linear analysis 67 (1988) 161- 169

955. Karamanlidis, D. and V. Prakash, Exact transfer and stiffness matrices for a beam/column resting on a two-parameter foundation 72 (1989) 77- 89

956. Karamanlidis, D. and V. Agrawal, Analysis of stiffened shear-flexible orthotropic panels 73 (1989) 133- 146

957. Karniadakis, G.E., Spectral element-Fourier methods for incompressible turbulent flows 80 (1990) 367- 380

958. Kaveh, A., Improved cycle bases for the flexibility analysis of structures 9 (1976) 267- 272

959. Kaveh, A., A combinatorial optimization problem; optimal generalized cycle bases 20 (1979) 39- 51

960. Kaveh, A., Suboptimal cycle bases of graphs for the flexibility analysis of skeletal structures 71 (1988) 259- 271

961. Keast, P., Moderate-degree tetrahedral quadrature formulas 55 (1986) 339- 348

962. Kelly, D.W., A dual formulation for generating information about constrained optima in automated design 5 (1975) 339- 352

963. Kelly, D.W., A.J. Morris, P. Bartholomew and R.O. Stafford, A review of techniques for automated structural design 12 (1977) 219- 242

964. Kennon, S.R. and G.S. Dulikravich, Optimum acceleration factors for iterative solution of linear and nonlinear differential systems 47 (1984) 357- 367

965. Kermanidis, T., Kupradze's functional equation for the torsion problem of prismatic bars - Part 1 7 (1976) 39- 46

966. Kermanidis, T., Kupradze's functional equation for the torsion problem of prismatic bars - Part 2 7 (1976) 249- 259

967. Kermode, M., A. McKerrell and L.M. Delves, The calculation of singular coefficients 50 (1985) 205- 215

968. Keshavarzi, M., A modified integral equation applied to problems of elastostatics 16 (1978) 1- 9

969. Key, S.W., A finite element procedure for the large deformation dynamic response of axisymmetric solids 4 (1974) 195- 218

970. Key, S.W., R.D. Krieg and K.-J. Bathe, On the application of the finite element method to metal-forming processes - Part 1 17/18 (1979) 597- 608

971. Key, S.W. and R.D. Krieg, On the numerical implementation of inelastic time dependent and time independent, finite strain constitutive equations in structural mechanics 33 (1982) 439- 452

972. Khaliq, A.Q.M. and E.H. Twizell, Backward difference replacements of the space derivative in first-order hyperbolic equations 43 (1984) 45- 56

973. Khennane, A. and G. Baker, Plasticity models for the biaxial behaviour of concrete at elevated temperatures, Part I: Failure criterion 100 (1992) 207- 223

974. Khennane, A. and G. Baker, Plasticity models for the biaxial behaviour of concrete at elevated temperatures, Part II: Implementation and simulation tests 100 (1992) 225- 248

975. Khulief, Y.A., On the finite element dynamic analysis of flexible mechanisms 97 (1992) 23- 32

976. Kiciman, Ö.K. and E.P. Popov, A general finite element model for shells of arbitrary geometry 13 (1978) 45- 58

977. Kida, T. and T. Take, Note on the box method and the linear segment method in the integral equation of thin aerofoil theory 36 (1983) 127- 145

978. Kida, T. and T. Take, A vortex-lattice method in the linear theory on a two-dimensional supercavitating flat plate foil 36 (1983) 191- 205

979. Kiehne, T.M., D.E. Wilson and R.D. Matthews, Numerical solution technique for transient, two-dimensional combustion with multi-step kinetics 83 (1990) 9- 31

980. Kikuchi, F., On the validity of the finite element analysis of circular arches represented by an assemblage of beam elements 5 (1975) 253- 276

981. Kikuchi, F., Accuracy of some finite element models for arch problems (see also 43 (1984) 115-116) 35 (1982) 315- 345

982. Kikuchi, F., Mixed and penalty formulations for finite element analysis of an eigenvalue problem in electromagnetism 64 (1987) 509- 521

983. Kikuchi, N., Remarks on 4CST-elements for incompressible materials 37 (1983) 109- 123

984. Kikuchi, N., Adaptive grid-design methods for finite element analysis 55 (1986) 129- 160

985. Kikuchi, N., K.Y. Chung, T. Torigaki and J.E. Taylor, Adaptive finite element methods for shape optimization of linearly elastic structures 57 (1986) 67- 89

986. Kikuta, M., H. Togoh and M. Tanaka, Boundary element analysis of nonlinear transient heat conduction problems 62 (1987) 321- 329

987. Kim, S.J. and J.T. Oden, Finite element analysis of a class of problems in finite elastoplasticity based on the thermodynamical theory of materials of type N 53 (1985) 277- 302

988. Kim, S.-S. and E.J. Haug, A recursive formulation for flexible multibody dynamics. Part I: Open-loop systems 71 (1988) 293- 314

989. Kim, S.-S. and E.J. Haug, A recursive formulation for flexible multibody dynamics, Part II: Closed loop systems 74 (1989) 251- 269

990. Kim, S.-W. and Y.-S. Chen, A finite element computation of turbulent boundary layer flows with an algebraic stress turbulence model 66 (1988) 45- 63

991. King, R.B. and V. Sonnad, Implementation of an element-by-element solution algorithm for the finite element method on a coarse-grained parallel computer 65 (1987) 47- 59

992. Kirsch, U. and D. Benardout, Optimal design of elastic trusses by approximate equilibrium 22 (1980) 347- 359

993. Kirsch, U., Approximate structural reanalysis based on series expansion 26 (1981) 205- 223

994. Kirsch, U., On some simplified models for optimal design of structural systems 48 (1985) 155- 169

995. Kirsch, U., Optimal topologies of truss structures 72 (1989) 15- 28

996. Kitahara, M. and J.D. Achenbach, BIE method to analyze wave motion in solids with periodically distributed cavities 64 (1987) 523- 536

997. Klarbring, A., A mathematical programming approach to three-dimensional contact problems with friction 58 (1986) 175- 200

998. Kleiber, M. and A. Zacharski, Numerical analysis of local instabilities in elastic and elasto-plastic prismatic plate assemblies 31 (1982) 149- 168

999. Kleiber, M., J.A. König and A. Sawczuk, Studies on plastic structures: stability, anisotropic hardening, cyclic loads 33 (1982) 487- 556

1000. Kleiber, M. and T.D. Hien, Nonlinear dynamics of complex axis-symmetric structures under arbitrary loads 37 (1983) 93- 107

1001. Kleiber, M., Computational coupled non-associative thermo-plasticity 90 (1991) 943- 967

1002. Kleinstreuer, C. and M.R. Patterson, An interactive finite difference preprocessor for three-dimensional fluid flow systems 27 (1981) 1- 12

1003. Kłosiak, T. and M. Machura, The use of minimization methods in the two-dimensional cross-spring hinge problem 12 (1977) 337- 351

1004. Knudson, W. and D. Nagy, Discrete data smoothing by spline interpolation with application to initial geometry of cable nets 4 (1974) 321- 348

1005. Knupp, P.M., On the invertibility of the isoparametric map 78 (1990) 313- 329

1006. Kobayashi, N., Computer simulation of heat, mass and fluid flows in a melt during Czochralski crystal growth 23 (1980) 21- 33

1007. Kocher, G., Industrial application of linear/nonlinear dynamics of multibody systems 91 (1991) 1397-1402

1008. Koh, B.C. and N. Kikuchi, New improved hourglass control for bilinear and trilinear elements in anisotropic linear elasticity 65 (1987) 1- 46

1009. Koko, T.S. and M.D. Olson, Nonlinear transient response of stiffened plates to air blast loading by a superelement approach 90 (1991) 737- 760

1010. Kolymbas, D., Ice forces on conical offshore structures 60 (1987) 217- 231

1011. Kondapalli, P.S., D.J. Shippy and G. Fairweather, The method of fundamental solutions for transmission and scattering of elastic waves 96 (1992) 255- 269

1012. Kondo, N., N. Tosaka and T. Nishimura, Third-order upwind finite element formulations for incompressible viscous flow problems 93 (1991) 169- 187

1013. König, J.A. and G. Maier, Adaptation of rigid-work-hardening discrete structures subjected to load and temperature cycles and second-order geometric effects (Errata, 12 (1977) 393) 8 (1976) 37- 50

1014. König, M., D. Nagy and P. Streiner, Buckling analysis with the ASKA program system 16 (1978) 185- 212

1015. König, M., The equivalent solid plate concept in the finite element analysis of tube bundle heat exchangers 20 (1979) 351- 358

1016. König, M., A sequel to the article "Buckling analysis with the ASKA program system" 26 (1981) 241- 246

1017. König, M., Technical note on mode superposition in buckling analysis 28 (1981) 117- 125

1018. Koski, J. and R. Silvennoinen, Pareto optima of isostatic trusses 31 (1982) 265- 279

1019. Kounadis, A.N., T. Avraam and J. Mallis, On the reliability of classical divergence instability analyses of Ziegler's nonconservative model 95 (1992) 317- 330

1020. Kovaljov, O.B., N.A. Larkin, W.M. Fomin and N.N. Yanenko, The solution of nonhomogeneous thermal problems and the Stefan single-phase problem in arbitrary domains 22 (1980) 259- 271

1021. Kremer, Z. and M.A. Slonim, A novel computational approach for the analysis of transient and steady-state processes in an LC chopper 72 (1989) 1- 13

1022. Kreskovsky, J.P., S.J. Shamroth and W.R. Briley, A numerical study of the unsteady leading edge separation bubble on an oscillating airfoil 11 (1977) 39- 56

1023. Kreskovsky, J.P. and S.J. Shamroth, An implicit marching method for the two-dimensional reduced Navier-Stokes equations at arbitrary Mach number 13 (1978) 307- 334

1024. Kriz, J., Variations of a differential system containing discontinuities 26 (1981) 247- 258

1025. Kröplin, B., D. Dinkler and J. Hillmann, An energy perturbation applied to nonlinear structural analysis 52 (1985) 885- 897

1026. Kröplin, B.-H. and D. Dinkler, A creep type strategy used for tracing the load path in elastoplastic post buckling analysis 32 (1982) 365- 376

1027. Ku, H.-C., T.D. Taylor and R.S. Hirsh, A pseudospectral matrix element method for calculation of double diffusive layers near corners 75 (1989) 141- 151

1028. Ku, H.C., T.D. Taylor and R.S. Hirsh, Pseudospectral matrix element methods for flow in complex geometry 80 (1990) 381- 388

1029. Kulak, R.F., Adaptive contact elements for three-dimensional explicit transient analysis 72 (1989) 125- 151

1030. Kunar, R.R. and A.S.L. Chan, A method for the configurational optimisation of structures 7 (1976) 331- 350

1031. Kung, W.-C. and K.H. Hohenemser, Eigenvalue analysis for coupled large linear damped structures 12 (1977) 69- 75

1032. Kuznetsov, Y.A., Multigrid domain decomposition methods for elliptic problems 75 (1989) 185- 193

1033. La Hargue, J.P. and J.P. Mascarell, Internal design of the E3D inter-discipline environment 75 (1989) 227- 240

1034. Lachat, J.C. and J.O. Watson, Progress in the use of boundary integral equations, illustrated by examples
10 (1977) 273- 289

1035. Lacombe, C. and C. Bédard, Face-apex projectors for the interpolation function of a general tetrahedral mid-edge finite element
68 (1988) 177- 188

1036. Ladefoged, T., Triangular ring element with analytic expressions for stiffness and mass matrix
67 (1988) 171- 187

1037. Ladeveze, P., P. Marin, J.P. Pelle and J.L. Gastein, Accuracy and optimal meshes in finite element computation for nearly incompressible materials
94 (1992) 303- 315

1038. Ladopoulos, E.G., On the numerical solution of the finite-part singular integral equations of the first and the second kind used in fracture mechanics
65 (1987) 253- 266

1039. Lahargue, J.P. and Soubbaramayer, A numerical model for the investigation of the flow and isotope concentration field in an ultracentrifuge
15 (1978) 259- 273

1040. Lainoff, S.M., Algorithmic redesign of structures with box-shaped compartments
28 (1981) 37- 48

1041. Lamblin, D., C. Cinquini and G. Guerlement, Application of linear programming to the optimal plastic design of circular plates subject to technological constraints
13 (1978) 233- 243

1042. Langer, F.D., H. Hemami and D.B. Brown, Constraint forces in holonomic mechanical systems
62 (1987) 255- 274

1043. Langlois, W.E. and K.-J. Lee, Hydrodynamics of neurons
9 (1976) 219- 242

1044. Langlois, W.E. and C.C. Shir, Digital simulation of flow patterns in the Czochralski crystal-pulling process
12 (1977) 145- 152

1045. Langlois, W.E., Hydrodynamics of neurons: a postscript
12 (1977) 153

1046. Langlois, W.E., Iterative solution of finite width foil-bearing problems
14 (1978) 249- 258

1047. Langlois, W.E., Conservative differencing procedures for rotationally symmetric flow with swirl
25 (1981) 315- 333

1048. LaPorte, F., On the design of an expert system guide for the use of scientific software
75 (1989) 241- 250

1049. Larsen, P.K. and E.P. Popov, Large displacement analysis of viscoelastic shells of revolution
3 (1974) 237- 253

1050. Lassmann, K., Numerical noise analysis: a new probabilistic technique
40 (1983) 111- 119

1051. Latinopoulos, P. and J. Ganoulis, Numerical simulation of oscillating flow through idealized sclerotic arteries
20 (1979) 279- 290

1052. Latinopoulos, P. and D. Tolikas, Propagation of acoustic waves in ducts with varying cross sections and viscous mean flow
23 (1980) 215- 224

1053. Lau, S.L. and S.W. Yuen, The Hopf bifurcation and limit cycle by the incremental harmonic balance method
91 (1991) 1109-1121

1054. Launder, B.E. and D.B. Spalding, The numerical computation of turbulent flows
3 (1974) 269- 289

1055. Laursen, M.E. and M. Gellert, Improved equilibrium finite elements
14 (1978) 125- 135

1056. Lavender, D.A. and D.R. Hayhurst, An assessment of higher-order isoparametric elements for solving an elastic problem
56 (1986) 139- 165

1057. Le Quéré, P. and J. Pécheux, A three-dimensional pseudo-spectral algorithm for the computation of convection in a rotating annulus
80 (1990) 261- 271

1058. Le Tallec, P., Compatibility condition and existence results in discrete finite incompressible elasticity
27 (1981) 239- 259

1059. Le Tallec, P. and V. Ruas, On the convergence of the bilinear-velocity constant-pressure finite element method in viscous flow
54 (1986) 235- 243

1060. Le Tallec, P. and A. Lotfi, Decomposition methods for adherence problems in finite elasticity
68 (1988) 67- 82

1061. Lee, E.H., R.L. Mallett, T.C.T. Ting and W.H. Yang, Dynamic analysis of structural deformation and metal forming
5 (1975) 69- 82

1062. Lee, E.H., R.L. Mallett and W.H. Yang, Stress and deformation analysis of the metal extrusion process
10 (1977) 339- 353

1063. Lee, H.-C. and A.J. Wathen, On element-by-element preconditioning for general elliptic problems
92 (1991) 215- 229

1064. Lee, J.H.W., J. Peraire and O.C. Zienkiewicz, The characteristic-Galerkin method for advection-dominated problems - an assessment
61 (1987) 359- 369

1065. Lee, M.S., N. Kikuchi and R.A. Scott, Shape optimization in laminated composite plates
72 (1989) 29- 55

1066. Lee, S. and G.S. Dulikravich, Distributed minimal residual (DMR) method for acceleration of iterative algorithms
86 (1991) 245- 262

1067. Lee, S.-C., K.-L. Wong and C.-K. Chen, The finite element solution of laminar combined convection from a horizontal cylinder
50 (1985) 147- 161

1068. Lee, S.H. and S.S. Hsieh, Expedient implicit integration with adaptive time stepping algorithm for nonlinear transient analysis
81 (1990) 151- 172

1069. Lee, S.Y. and Y.H. Kuo, Divergence-type stability of a non-uniform column
84 (1990) 163- 173

1070. Lega, J., Defect-mediated turbulence
89 (1991) 419- 424

1071. Lehner, J.R. and S.C. Batterman, Static and dynamic finite deformations of cables using rate equations
2 (1973) 349- 366

1072. Leipholz, H.H.E., Variational principles for non-conservative problems, a foundation for a finite element approach
17/18 (1979) 609- 617

1073. Leipholz, H.H.E., On a generalization of the lower bound theorem for elastic rods and plates subjected to compressive follower forces
27 (1981) 101- 120

1074. Leipholz, H.H.E. and F. Pfendt, On the stability of rectangular, completely supported plates with uncoupling boundary conditions subjected to uniformly distributed follower forces
30 (1982) 19- 52

1075. Leipholz, H.H.E., On the energy criterion in the context of plate stability
32 (1982) 401- 414

1076. Leipholz, H.H.E., On direct methods in the calculus of variations
37 (1983) 57- 78

1077. Leipholz, H.H.E. and F. Pfendt, Application of extended equations of Galerkin to stability problems of rectangular plates with free edges and subjected to uniformly distributed follower forces
37 (1983) 341- 365

1078. Leipholz, H.H.E., An alternative to Liapunov's stability method
43 (1984) 293- 313

1079. Leipholz, H.H.E., An alternative to Liapunov's stability method and its application to higher-order systems (Errata, 54 (1986) 361)
47 (1984) 299- 314

1080. Leipholz, H.H.E., On the application of the energy method to continuous follower load systems
53 (1985) 259- 276

1081. Leipholz, H.H.E., On principles of stationarity for non-selfadjoint rod problems
59 (1986) 215- 226

1082. Leipholz, H.H.E., On Galerkin's method interpreted as a generalized integral transformation 65 (1987) 177- 189

1083. Lemaître, J., Coupled elasto-plasticity and damage constitutive equations 51 (1985) 31- 49

1084. Lemanska, M., T. Auerbach and J. Mennig, Exact solution of the P_1 time-dependent equations 5 (1975) 329- 338

1085. Lenoir, M. and A. Jami, A variational formulation for exterior problems in linear hydrodynamics 16 (1978) 341- 359

1086. Leonard, B.P., A stable and accurate convective modelling procedure based on quadratic upstream interpolation 19 (1979) 59- 98

1087. Leonard, B.-P., The ULTIMATE conservative difference scheme applied to unsteady one-dimensional advection 88 (1991) 17- 74

1088. Lepik, Ü. and M. Just, Automatic calculation for bending of rigid-plastic beams under dynamic loading 38 (1983) 19- 28

1089. Leroy, Y.M. and O. Chapuis, Localization in strain-rate-dependent solids 90 (1991) 969- 986

1090. Lesaint, P., On the convergence of Wilson's nonconforming element for solving the elastic problem 7 (1976) 1- 16

1091. Leschziner, M.A., Practical evaluation of three finite difference schemes for the computation of steady-state recirculating flows 23 (1980) 293- 312

1092. Leventhal, S.H., Method of moments for singular problems 6 (1975) 79- 100

1093. Levin, D. N. Papamichael and A. Sideridis, On the use of conformal transformations for the numerical solution of harmonic boundary value problems 12 (1977) 201- 218

1094. Lewis, R.I., Recent developments and engineering applications of the vortex cloud method 64 (1987) 153- 176

1095. Lewis, R.W., K. Morgan, H.R. Thomas and M. Strada, Drying-induced stresses in porous bodies - an elastoviscoplastic model 20 (1979) 291- 301

1096. Lewis, R.W., K. Morgan and K.H. Johnson, A finite element study of two-dimensional multiphase flow with particular reference to the five-spot problem 44 (1984) 17- 47

1097. Lewis, R.W. and Y. Zheng, Coarse optimization for complex systems: An application of orthogonal experiments 94 (1992) 63- 92

1098. Li, C.-P., Computational methods for shock waves in three-dimensional supersonic flow 87 (1991) 305- 327

1099. Li, H.-B., G.-M. Han, H.A. Mang and P. Torzicky, A new method for the coupling of finite element and boundary element discretized subdomains of elastic bodies 54 (1986) 161- 185

1100. Li, K.-T. and A.-X. Huang, Mathematical aspect of the streamfunction equations of compressible turbomachinery flows and their finite element approximations using optimal control 41 (1983) 175- 194

1101. Li, Z.-C. and E. Dai, Numerical methods for calculating pressure distribution in gas bearings 31 (1982) 179- 187

1102. Li, Z.-C., Z.-Y. Cao and C.-S. Yu, A new method of stress calculation in elastic kinetics problems 36 (1983) 61- 69

1103. Li, Z.-C., A combined method for solving elliptic problems on unbounded domains 73 (1989) 191- 208

1104. Li, Z.-C. and T.D. Bui, Penalty-combined method and applications in solving elliptic problems with singularities 97 (1992) 291- 316

1105. Liao, C.Y. and S.N. Atluri, A finite element alternating method for evaluation of stress intensity factors for part-circular cracks subjected to arbitrary loadings 91 (1991) 1253-1270

1106. Lie-heng, W., A mathematical model of coupled plates and its finite element method 99 (1992) 43- 59

1107. Lim, O.K. and J.S. Arora, An active set RQP algorithm for engineering design optimization 57 (1986) 51- 65

1108. Lim, T.H., Numerical solution of the Riemann-Hilbert problem for a vertical jet under gravity 21 (1980) 45- 61

1109. Lin, J.I., An Element Eigenvalue Theorem and its application for stable time steps 73 (1989) 283- 294

1110. Lin, J.S. and P.L. Gould, Shells of revolution with local plasticity 65 (1987) 127- 145

1111. Lindeman, A.J., G.K. Leaf and H.G. Kaper, A computational analysis and evaluation of the finite element method for a class of nuclear reactor configurations 4 (1974) 97- 117

1112. Lions, J.L., Earth system models and mathematical remarks 89 (1991) 1- 9

1113. Lions, P.L., On Hartree and Hartree-Fock equations in atomic and nuclear physics 75 (1989) 53- 60

1114. Lipitakis, E.A. and D.J. Evans, Solving linear finite element systems by normalized approximate matrix factorization semi-direct methods 43 (1984) 1- 19

1115. Liu, B. and Beris, A.N., The stability of numerical approximations to nonlinear hyperbolic equations 76 (1989) 179- 204

1116. Liu, C.Y., W.R. Goodin and C.M. Lam, Numerical problems in the advection of pollutants 9 (1976) 281- 299

1117. Liu, G., D.-W. He and Y.-W. Shen, A quasi-frontal subspace iteration method for finite element dynamic analysis and its application 96 (1992) 109- 115

1118. Liu, N., N. Altiero and U. Sur, An alternative integral approach applied to kinked cracks in finite plane bodies 84 (1990) 211- 226

1119. Liu, W.K. and D.C. Ma, Computer implementation aspects for fluid-structure interaction problems 31 (1982) 129- 148

1120. Liu, W.K. and Y.F. Zhang, Improvement of mixed time implicit-explicit algorithms for thermal analysis of structures 37 (1983) 207- 223

1121. Liu, W.K., D. Lam and T. Belytschko, Finite element method for hydrodynamic mass with nonstationary fluid 44 (1984) 177- 211

1122. Liu, W.K., Y.F. Zhang and T. Belytschko, Implementation of mixed-time partition algorithms for nonlinear thermal analysis of structures 48 (1985) 245- 263

1123. Liu, W.K., J.S.-J. Ong and R.A. Uras, Finite element stabilization matrices - a unification approach 53 (1985) 13- 46

1124. Liu, W.K., E.S. Law, D. Lam and T. Belytschko, Resultant-stress degenerated-shell element (see also 72 (1989) 233) 55 (1986) 259- 300

1125. Liu, W.K., T. Belytschko and A. Mani, Probabilistic finite elements for nonlinear structural dynamics 56 (1986) 61- 81

1126. Liu, W.K. and J. Gvildys, Fluid-structure interaction of tanks with an eccentric core barrel 58 (1986) 51- 77

1127. Liu, W.K., T. Belytschko and H. Chang, An arbitrary Lagrangian-Eulerian finite element method for path-dependent materials 58 (1986) 227- 245

1128. Liu, W.K., G. Besterfield and T. Belytschko, Transient probabilistic systems
67 (1988) 27- 54

1129. Liu, W.K., H. Chang, J.-S. Chen and T. Belytschko, Arbitrary Langrarian-Eulerian Petrov-Galerkin finite elements for nonlinear continua
68 (1988) 259- 310

1130. Liu, W.K., T. Belytschko and J.-S. Chen, Nonlinear versions of flexurally superconvergent elements
71 (1988) 241- 258

1131. Liu, W.K., J.-S. Chen, T. Belytschko and Y.F. Zhang, Adaptive ALE finite elements with particular reference to external work rate on frictional interface
93 (1991) 28.9- 216

1132. Liu, Y. and F.J. Rizzo, A weakly singular form of the hypersingular boundary integral equation applied to 3-D acoustic wave problems
96 (1992) 271- 287

1133. Löhner, R., K. Morgan and O.C. Zienkiewicz, The use of domain splitting with an explicit hyperbolic solver
45 (1984) 313- 329

1134. Löhner, R., K. Morgan and O.C. Zienkiewicz, An adaptive finite element procedure for compressible high speed flows
51 (1985) 441- 465

1135. Löhner, R., An adaptive finite element scheme for transient problems in CFD
61 (1987) 323- 338

1136. Löhner, R., Adaptive remeshing for transient problems
75 (1989) 195- 214

1137. Löhner, R., J. Camberos and M. Merriam, Parallel unstructured grid generation
95 (1992) 343- 357

1138. Lomax, R.J., Preservation of the conservation properties of the finite element method under local mesh refinement
12 (1977) 309- 314

1139. Loret, B. and J.H. Prevost, Accurate numerical solutions for Drucker-Prager elastic-plastic models
54 (1986) 259- 277

1140. Loret, B. and J.H. Prevost, Dynamic strain localization in elasto-(visco-)plastic solids, Part 1. General formulation and one-dimensional examples
83 (1990) 247- 273

1141. Loret, B., F. Hammoum and Y.F. Dafalias, A note on the accuracy of stress-point algorithms for anisotropic elastic-plastic solids
98 (1992) 399- 409

1142. Loula, A.F.D., T.J.R. Hughes and L.P. Franca, Petrov-Galerkin formulations of the Timoshenko beam problem
63 (1987) 115- 132

1143. Loula, A.F.D., T.J.R. Hughes, L.P. Franca and I. Miranda, Mixed Petrov-Galerkin methods for the Timoshenko beam problem
63 (1987) 133- 154

1144. Loula, A.F.D., L.P. Franca, T.J.R. Hughes and I. Miranda, Stability, convergence and accuracy of a new finite element method for the circular arch problem
63 (1987) 281- 303

1145. Loula, A.F.D., I. Miranda, T.J.R. Hughes and L.P. Franca, On mixed finite element methods for axisymmetric shell analysis
72 (1989) 201- 231

1146. Loula, A.F.D. and J.N.C. Guerreiro, Finite element analysis of nonlinear creeping flows
79 (1990) 87- 109

1147. Lu, Y.Y., T. Belytschko and W.K. Liu, A variationally coupled FE-BE method for elasticity and fracture mechanics
85 (1991) 21- 37

1148. Luehr, C.P. and M.B. Rubin, The significance of projection operators in the spectral representation of symmetric second order tensors
84 (1990) 243- 246

1149. Luo, J.-C. and M.B. Friedman, A parallel computational model for the finite element method on a memory-sharing multiprocessor computer
84 (1990) 193- 209

1150. Luo, S.J., Y.W. Zheng, H. Qian and D.Q. Wang, Finite difference computation for transonic steady potential flows 27 (1981) 129– 138

1151. Lyell, M.J. and K.D. Cronin, Extinction properties of a premixed laminar flame in oblique stagnation flow in the region of the stagnation point 95 (1992) 71– 86

1152. Machura, M., The design of an open-ended program package 27 (1981) 155– 166

1153. Maday, Y. and E.M. Rønquist, Optimal error analysis of spectral methods with emphasis on non-constant coefficients and deformed geometries 80 (1990) 91– 115

1154. Maewal, A., A finite element method for construction of dynamical theories of layered plates 42 (1984) 149– 165

1155. Maewal, A., An asymptotic method for construction of plate theories: Cylindrical bending of a homogeneous plate 43 (1984) 127– 136

1156. Maewal, A., Construction of models of dispersive elastodynamic behavior of periodic composites: A computational approach 57 (1986) 191– 205

1157. Maewal, A., Finite element analysis of steady nonlinear harmonic oscillations of axisymmetric shells 58 (1986) 37– 50

1158. Mahrenholtz, O., Different finite element approaches to large plastic deformations 33 (1982) 453– 468

1159. Maier, G., F. Andreuzzi, F. Giannessi, L. Jurina and F. Taddei, Unilateral contact, elastoplasticity and complementarity with reference to offshore pipeline design (Erratum, 22 (1980) 151) 17/18 (1979) 469– 495

1160. Maier, G., S. Giacomini and F. Paterlini, Combined elastoplastic and limit analysis via restricted basis linear programming 19 (1979) 21– 48

1161. Maier, G. and C. Polizzotto, A Galerkin approach to boundary element elastoplastic analysis 60 (1987) 175– 194

1162. Maier, G., M. Diligenti and A. Carini, A variational approach to boundary element elastodynamic analysis and extension to multidomain problems 92 (1991) 193– 213

1163. Maißer, P., Analytical dynamics of multibody systems 91 (1991) 1391–1396

1164. Malkus, D.S. and T.J.R. Hughes, Mixed finite element methods – reduced and selective integration techniques: a unification of concepts 15 (1978) 63– 81

1165. Malkus, D.S. and E.T. Olsen, Obtaining error estimates for optimally constrained incompressible finite elements 45 (1984) 331– 353

1166. Malkus, D.S. and M.E. Plesha, Zero and negative masses in finite element vibration and transient analysis 59 (1986) 281– 306

1167. Malkus, D.S. and X. Qiu, Division structure of finite element eigenproblems arising from negative and zero masses 66 (1988) 365– 368

1168. Malkus, D.S., M.E. Plesha and M.-R. Liu, Reversed stability conditions in transient finite element analysis 68 (1988) 97– 114

1169. Mallet, M., C. Poirier and F. Shakib, A new finite element formulation for computational fluid dynamics: Development of an hourglass control operator for multidimensional advective-diffusive systems 94 (1992) 429– 442

1170. Malone, J.G., Automated mesh decomposition and concurrent finite element analysis for hypercube multiprocessor computers 70 (1988) 27– 58

1171. Mandel, J., Iterative solvers by substructuring for the *p*-version finite element method 80 (1990) 117– 128

1172. Manolis, G.D. and D.E. Beskos, Thermally induced vibrations of beam structures 21 (1980) 337- 355

1173. Manolis, G.D. and D.E. Beskos, Dynamic response of lined tunnels by an isoparametric boundary element method 36 (1983) 291- 307

1174. Marcelin, J.L., M. Abouaf and J.L. Chenot, Analysis of residual stresses in hot-rolled complex beams 56 (1986) 1- 16
37 (1983) 15- 24
39 (1983) 159- 178

1175. Marciniak, A., Discrete Hill's equations 56 (1986) 17- 45

1176. Marciniak, A., Discrete mechanics of arbitrary order 14 (1978) 323- 376

1177. Marini, L.D. and P. Pietra, Fixed-point algorithms for stationary flow in porous media 15 (1978) 161- 174

1178. Markatos, N.C.G., Heat, mass and momentum transfer across a wavy boundary 29 (1981) 175- 199

1179. Markatos, N.C.G., D.B. Spalding, D.G. Tatchell and N. Vlachos, A solution method for three-dimensional turbulent boundary layers on bodies of arbitrary shapes 42 (1984) 167- 182

1180. Markatos, N.-C.G. and C.B. Wills, Prediction of viscous flow around a fully submerged appended body 15 (1978) 277- 308

1181. Marques, J.M.M.C. and D.R.J. Owen, Implicit-explicit time integration in quasistatic elastoviscoplasticity using finite and infinite elements 40 (1983) 327- 360

1182. Marrocco, A. and O. Pironneau, Optimum design with Lagrangian finite elements: design of an electromagnet 25 (1981) 129- 148

1183. Martins, J.A.C. and J.T. Oden, A numerical analysis of a class of problems in elastodynamics with friction 35 (1982) 285- 292

1184. Mastro, R.A. and D.A. Voss, A quintic spline collocation procedure for solving the Falkner-Skan boundary-layer equation 39 (1983) 93- 101

1185. Mastrojannis, E.N. and T.B. Kermanidis, A numerical solution of the annular stamp problem 3 (1974) 195- 207

1186. Mastrojannis, E.N., L.M. Keer and T. Mura, Numerical solution of a three-part mixed boundary value problem of linear elastostatics 14 (1978) 237- 248

1187. Masur, E.F., Optimal structural design for a discrete set of available structural members 70 (1988) 301- 320

1188. Masur, E.F., Some remarks on the optimal choice of finite element grids 76 (1989) 135- 156

1189. Matejovič, P. and V. Adamík, A one-point integration quadrilateral with hourglass control in axisymmetric geometry 88 (1991) 241- 258

1190. Matejovič, P. and V. Adamík, A diffusion equation with hourglass control in an axisymmetric geometry 13 (1978) 27- 43

1191. Matejovič, P., Quadrilateral with high coarse-mesh accuracy for solid mechanics in axisymmetric geometry 48 (1985) 191- 202

1192. Matsuno, K., Evolution of nonlinear dissipative systems with application to a macro-economic organism 96 (1992) 65- 92

1193. Matthies, H.G. and C. Nath, Dynamic stability of periodic solutions of large scale nonlinear systems 6 (1975) 123- 154

1194. McGuirk, J.J. and J.M.L.M. Palma, The influence of numerical parameters in the calculation of gas turbine combustor flows

1195. McKeown, J.J., A quasi-linear programming algorithm for optimising fibre-reinforced structures of fixed stiffness

1196. McKeown, J.J., Optimal composite structures by deflection-variable programming 12 (1977) 155- 179

1197. McNeill, N.J. and J.S. Hansen, An accuracy study for a class of rectangular isoparametric finite elements 25 (1981) 335- 341

1198. Meakin, R.L. and R.L. Street, Simulation of environmental flow problems in geometrically complex domains. Part 1: A general coordinate transformation 68 (1988) 151- 175

1199. Meakin, R.L. and R.L. Street, Simulation of environmental flow problems in geometrically complex domains. Part 2: A domain-splitting method 68 (1988) 311- 331

1200. Meek, J.L. and P.T.S. Ho, A simple finite element model for the warping torsion problem 37 (1983) 25- 36

1201. Meek, J.L. and H.S. Tan, A stiffness matrix extrapolation strategy for nonlinear analysis 43 (1984) 181- 194

1202. Meek, J.L. and H.S. Tan, Geometrically nonlinear analysis of space frames by an incremental iterative technique 47 (1984) 261- 282

1203. Meek, J.L. and H.S. Tan, Instability analysis of thin plates and arbitrary shells using a faceted shell element with Loof nodes 57 (1986) 143- 170

1204. Meek, J.L. and S. Loganathan, Large displacement analysis of space-frame structures 72 (1989) 57- 75

1205. Meek, P.C. and J. Norbury, A two-stage, two-level finite difference scheme for moving boundary problems 46 (1984) 137- 149

1206. Megahed, I.E.A. and S.E. Elghobashi, On the numerical solution of indeterminate steady elliptic flows 26 (1981) 225- 240

1207. Meissner, U., An explicit-implicit water-level model for tidal computations of rivers 13 (1978) 221- 232

1208. Meissner, U. and H. Wibbelser, A least square principle for the a posteriori computation of finite element approximation errors 85 (1991) 89- 108

1209. Mena, A.L. and T. Cebeci, Calculation of steady confined jets for two-dimensional plane laminar flows 35 (1982) 67- 86

1210. Mennig, J., T. Auerbach and W. Hälg, Two point Hermite approximations for the solution of linear initial value and boundary value problems 39 (1983) 199- 224

1211. Mercader, I., M. Net and A. Falques, Spectral methods for high order equations 91 (1991) 1245-1251

1212. Merriam, M.L., Smoothing and the second law 64 (1987) 177- 193

1213. Mešina, M., Convergence acceleration for the iterative solution of the equations $X = AX + f$ 10 (1977) 165- 173

1214. Militello, C. and C.A. Felippa, The first ANDES elements: 9-dof plate bending triangles 93 (1991) 217- 246

1215. Miner, E.W. and C.H. Lewis, Numerical studies of supersonic turbulent boundary-layer flows with tangential slot injection 4 (1974) 19- 38

1216. Mita, A. and J.E. Luco, Dynamic response of embedded foundations: A hybrid approach 63 (1987) 233- 259

1217. Mitra, A.K. and S. Das, Nonuniqueness in the integral equation formulation of the biharmonic equation in multiply connected domains 69 (1988) 205- 214

1218. Mizukami, A., An implementation of the streamline-upwind/Petrov-Galerkin method for linear triangular elements 49 (1985) 357- 364

1219. Mizukami, A. and T.J.R. Hughes, A Petrov-Galerkin finite element method for convection-dominated flows: an accurate upwinding technique for satisfying the maximum principle 50 (1985) 181- 193

1220. Mizukami, A., A mixed finite element method for boundary flux computation 57 (1986) 239- 243

1221. Mizukami, A., Variable explicit finite element methods for unsteady heat conduction equations 59 (1986) 101- 109

1222. Mizukami, A., Some integration formulas for a four-node isoparametric element 59 (1986) 111- 121

1223. Moan, T., A note on the convergence of finite element approximations for problems formulated in curvilinear coordinate systems 3 (1974) 209- 235

1224. Modarress, D., Application of the method of integral relations to boundary layer flows over blunt bodies 14 (1978) 145- 157

1225. Møglestue, C., Monte Carlo particle modelling of small semiconductor devices 30 (1982) 173- 208

1226. Moin, P., Towards large eddy and direct simulation of complex turbulent flows 87 (1991) 329- 334

1227. Molina, R.-C. and J.-P. Huot, A one-point integration finite element solver for the fast solution of the compressible Euler equations 95 (1992) 37- 48

1228. Mollestad, E. and P.G. Bergan, Nonlinear dynamic analysis of submerged pipelines 34 (1982) 881- 892

1229. Morgan, K., T.G. Hughes and C. Taylor, The analysis of turbulent, free-shear, and channel flows by the finite element method 19 (1979) 117- 125

1230. Morgan, K., A numerical analysis of freezing and melting with convection 28 (1981) 275- 284

1231. Morgan, K., J. Peraire, J. Peiro and O. Hassan, The computation of three-dimensional flows using unstructured grids 87 (1991) 335- 352

1232. Morley, L.S.D., Study of trial functions in shell triangular finite elements of quadratic parametric representation 38 (1983) 203- 236

1233. Morris, A.J., On condensed geometric programming in structural optimisation 15 (1978) 139- 148

1234. Morton, K.W., Generalised Galerkin methods for hyperbolic problems 52 (1985) 847- 871

1235. Moss, W.C., On instabilities in large deformation simple shear loading 46 (1984) 329- 338

1236. Mottl, J., Excavator optimization using the 'voting method' 98 (1992) 227- 250

1237. Mukherjee, A. and M. Mukhopadhyay, Response of stiffened plated structures under stochastic excitation 71 (1988) 273- 292

1238. Müller, C.H. and U. Heise, Numerical calculation of eigenvalues of integral operators for plane elastostatic boundary value problems 21 (1980) 17- 43

1239. Muñoz, R., Theoretical analysis of some spectral multigrid methods 80 (1990) 287- 294

1240. Murad, M.A. and A.F.D. Loula, Improved accuracy in finite element analysis of Biot's consolidation problem 95 (1992) 359- 382

1241. Murray, D.W., L. Chitnuyanondh and C. Wong, Implementation of an elastic-plastic concrete relationship 23 (1980) 35- 57

1242. Murthy, S.S. and R.H. Gallagher, A triangular thin-shell finite element based on discrete Kirchhoff theory 54 (1986) 197- 222

1243. Nacar, A., A. Needleman and M. Ortiz, A finite element method for analyzing localization in rate dependent solids at finite strains 73 (1989) 235- 258

1244. Naganarayana, B.P., G. Prathap, B. Dattaguru and T.S. Ramamurty, A field-consistent and variationally correct representation of transverse shear strains in the nine-noded plate element 97 (1992) 355- 374

1245. Nagtegaal, J.C., A new approach to optimal design of elastic structures 2 (1973) 255- 264

1246. Nagtegaal, J.C., D.M. Parks and J.R. Rice, On numerically accurate finite element solutions in the fully plastic range 4 (1974) 153- 177

1247. Nagtegaal, J.C., On the implementation of inelastic constitutive equations with special reference to large deformation problems 33 (1982) 469- 484

1248. Nagy, D. and M. König, Geometrically nonlinear finite element behaviour using buckling mode superposition 19 (1979) 447- 484

1249. Nakamura, S. and R.S. Lakes, Finite element analysis of stress concentration around a blunt crack in a Cosserat elastic solid 66 (1988) 257- 266

1250. Nakamura, T. and M. Ohsaki, Sequential optimal truss generator for frequency ranges 67 (1988) 189- 209

1251. Nakamura, T. and M. Ohsaki, A natural generator of optimum topology of plane trusses for specified fundamental frequency 94 (1992) 113- 129

1252. Nakamura, T., M. Ohsaki and T. Masui, Inverse generation of earthquake-strain constrained designs of a distributed parameter structure for a sequence of design strain functions 98 (1992) 1- 21

1253. Napolitano, L.G. and V. Losito, The closed spline functions 13 (1978) 335- 350

1254. Narayana Dutt, D. and B.S. Ramakrishna, Nonlinear programming solutions for controlling the vibration pattern of stretched strings 13 (1978) 351- 361

1255. Navarrina, F., E. Bendito and M. Casteleiro, High order sensitivity analysis in shape optimization problems 75 (1989) 267- 281

1256. Nedelec, J.C., Curved finite element methods for the solution of singular integral equations on surfaces in R^3 8 (1976) 61- 80

1257. Nee, K.-M. and A. Haldar, Elastoplastic nonlinear post-buckling analysis of partially restrained space structures 71 (1988) 69- 97

1258. Needleman, A. and C.F. Shih, A finite element method for plane strain deformations of incompressible solids 15 (1978) 223- 240

1259. Needleman, A., R.J. Asaro, J. LeMonds and D. Peirce, Finite element analysis of crystalline solids 52 (1985) 689- 708

1260. Needleman, A., Material rate dependence and mesh sensitivity in localization problems 67 (1988) 69- 85

1261. Neishlos, H., M. Israeli and Y. Kivity, The stability of explicit difference schemes for solving the problem of interaction between a compressible fluid and an elastic shell 41 (1983) 129- 143

1262. Nemat-Nasser, S. and K.N. Lee, Application of general variational methods with discontinuous fields to bending, buckling, and vibration of beams 2 (1973) 33- 41

1263. Nemat-Nasser, S. and D.-T. Chung, An explicit constitutive algorithm for large-strain, large-strain-rate elastic-viscoplasticity 95 (1992) 205- 219

1264. Ng, S.S. and M.Y.T. Chan, Solution of some boundary value problems in applied mechanics by the collocation least square method 11 (1977) 137- 150

1265. Nguyen Dang Hung, Direct limit analysis via rigid-plastic finite elements 8 (1976) 81- 116

1266. Nguyen Dang Hung and J.A. König, A finite element formulation for shakedown problems using a yield criterion of the mean 8 (1976) 179- 192

1267. Nguyen Hung, Numerical analysis of unsteady compressible laminar boundary layer flow 19 (1979) 187- 204

1268. Nguyen, H. and J. Reynen, A space-time least-square finite element scheme for advection-diffusion equations 42 (1984) 331- 342

1269. Nickell, R.E., Nonlinear dynamics by mode superposition 7 (1976) 107- 129

1270. Nickell, R.E., D.K. Gartling and G. Strang, Spectral decomposition in advection-diffusion analysis by finite element methods 17/18 (1979) 561- 580

1271. Niethammer, W. and U. Schweitzer, On the numerical analytic continuation of power series with application to the two-body and three-body problems 5 (1975) 239- 249

1272. Nilson, R.H. and Y.G. Tsuei, Free boundary problem of ECM by alternating-field technique on inverted plane 6 (1975) 265- 282

1273. Nilson, R.H. and S.K. Griffiths, Numerical analysis of hydraulically-driven fractures 36 (1983) 359- 370

1274. Nomura, T. and T.J.R. Hughes, An arbitrary Lagrangian-Eulerian finite element method for interaction of fluid and a rigid body 95 (1992) 115- 138

1275. Noor, A.K. and P.L. Rarig, Three-dimensional solutions of laminated cylinders 3 (1974) 319- 334

1276. Noor, A.K. and C.M. Andersen, Mixed isoparametric elements for Saint-Venant torsion 6 (1975) 195- 218

1277. Noor, A.K. and R.A. Camin, Symmetry considerations for anisotropic shells 9 (1976) 317- 335

1278. Noor, A.K. and C.M. Andersen, Mixed isoparametric finite element models of laminated composite shells 11 (1977) 255- 280

1279. Noor, A.K., W.H. Greene and S.J. Hartley, Nonlinear finite element analysis of curved beams 12 (1979) 289- 307

1280. Noor, A.K. and C.M. Andersen, Analysis of beam-like lattice trusses 20 (1979) 53- 70

1281. Noor, A.K. and J.M. Peters, Nonlinear dynamic analysis of space trusses 21 (1980) 131- 151

1282. Noor, A.K. and M.P. Nemeth, Micropolar beam models for lattice grids with rigid joints 21 (1980) 249- 263

1283. Noor, A.K. and N.F. Knight, Jr., Nonlinear dynamic analysis of curved beams 23 (1980) 225- 251

1284. Noor, A.K. and M.P. Nemeth, Analysis of spatial beamlike lattices with rigid joints 24 (1980) 35- 59

1285. Noor, A.K. and L.S. Weisstein, Stability of beamlike lattice trusses 25 (1981) 179- 193

1286. Noor, A.K. and J.M. Peters, Tracing post-limit-point paths with reduced basis technique 28 (1981) 217- 240

1287. Noor, A.K. and J.M. Peters, Bifurcation and post-buckling analysis of laminated composite plates via reduced basis technique 29 (1981) 271- 295

1288. Noor, A.K., On making large nonlinear problems small 34 (1982) 955- 985

1289. Noor, A.K. and J.M. Peters, Instability analysis of space trusses 40 (1983) 199- 218

1290. Noor, A., J.M. Peters and C.M. Andersen, Mixed models and reduction techniques for large-rotation nonlinear problems 44 (1984) 67- 89

1291. Noor, A.K. and W.C. Russell, Anisotropic continuum models for beamlike lattice trusses 57 (1986) 257- 277

1292. Noor, A.K. and J.M. Peters, Vibration analysis of laminated anisotropic shells of revolution 61 (1987) 277- 301

1293. Noor, A.K., C.M. Andersen and J.A. Tanner, Exploiting symmetries in the modeling and analysis of tires 63 (1987) 37- 81

1294. Noor, A.K. and J.M. Peters, A computational strategy for making complicated structural problems simple 71 (1988) 167- 182

1295. Noor, A.K., W.C. Burton and J.M. Peters, Predictor-corrector procedures for stress and free vibration analyses of multilayered composite plates and shells 82 (1990) 341- 363

1296. Nouh, A. and N. Ula, A search algorithm for the minimum cost covering of 0-1 integer sets 36 (1983) 147- 154

1297. Nouh, A., A sequential aggregation algorithm for the set partitioning problem 63 (1987) 225- 232

1298. Nour-Omid, B. and P. Wriggers, A two-level iteration method for solution of contact problems 54 (1986) 131- 144

1299. Nour-Omid, B. and K.C. Park, Solving structural mechanics problems on the CalTech Hypercube machine 61 (1987) 161- 176

1300. Nour-Omid, B., W.S. Dunbar and A.D. Woodbury, Lanczos and Arnoldi methods for the solution of convection-diffusion equations 88 (1991) 75- 95

1301. Nour-Omid, B. and C.C. Rankin, Finite rotation analysis and consistent linearization using projectors 93 (1991) 353- 384

1302. Nyssen, C. and P. Beckers, A unified approach for displacement, equilibrium and hybrid finite element models in elasto-plasticity 44 (1984) 131- 151

1303. Oden, J.T., Recent developments in the theory of finite element approximations of boundary value problems in nonlinear elasticity 17/18 (1979) 183- 202

1304. Oden, J.T., N. Kikuchi and Y.J. Song, Penalty-finite element methods for the analysis of Stokesian flows 31 (1982) 297- 329

1305. Oden, J.T. and O.-P. Jacquotte, Stability of some mixed finite element methods for Stokesian flows 43 (1984) 231- 247

1306. Oden, J.T. and J.A.C. Martins, Models and computational methods for dynamic friction phenomena 52 (1985) 527- 634

1307. Oden, J.T. and T.L. Lin, On the general rolling contact problem for finite deformations of a viscoelastic cylinder 57 (1986) 297- 367

1308. Oden, J.T., T. Strouboulis and P. Devloo, Adaptive finite element methods for the analysis of inviscid compressible flow: Part I. Fast refinement/unrefinement and moving mesh methods for unstructured meshes 59 (1986) 327- 362

1309. Oden, J.T., L. Demkowicz, W. Rachowicz and T.A. Westermann, Toward a universal $h-p$ adaptive finite element strategy, Part 2. A posteriori error estimation 77 (1989) 113- 180

1310. Oden, J.T., L. Demkowicz, W. Rachowicz and T.A. Westermann, A posteriori error analysis in finite elements: The element residual method for symmetrizable problems with applications to compressible Euler and Navier-Stokes equations 82 (1990) 183- 203

1311. Oden, J.T. and L. Demkowicz, $h-p$ adaptive finite element methods in computational fluid dynamics 89 (1991) 11- 40

1312. Oh, H.-S. and I. Babuška, The p -version of the finite element method for the elliptic boundary value problems with interfaces 97 (1992) 211- 231

1313. Ohring, S. and J. Telste, The direct matrix imbedding technique for computing three-dimensional potential flow about arbitrarily shaped bodies 21 (1980) 315- 336

1314. Ohtake, K., J.T. Oden and N. Kikuchi, Analysis of certain unilateral problems in von Karman plate theory by a penalty method - Part 1. A variational principle with penalty 24 (1980) 187- 213

1315. Ohtake, K., J.T. Oden and N. Kikuchi, Analysis of certain unilateral problems in von Karman plate theory by a penalty method - Part 2. Approximation and numerical analysis 24 (1980) 317- 337

1316. Okabe, M., Y. Yamada and I. Nishiguchi, Basis transformation of trial function space in Lagrange interpolation 23 (1980) 85- 99

1317. Okabe, M., Y. Yamada and I. Nishiguchi, Reconsideration of rectangular Lagrange families with hierarchy-ranking bases 23 (1980) 369- 390

1328. Okabe, M., Singularity and positioning constants in Poisson's equation with a point source of unit intensity 25 (1981) 287- 297

1329. Okabe, M., Fundamental theory of the semi-radial singularity mapping with applications to fracture mechanics 26 (1981) 53- 73

1320. Okabe, M. and N. Kikuchi, Some general Lagrange interpolations over simplex finite elements with reference to derivative singularities 28 (1981) 1- 25

1321. Okabe, M., Complete Lagrange family for the cube in finite element interpolations 29 (1981) 51- 66

1322. Okabe, M., Analytical integral formulae related to convex quadrilateral finite elements 29 (1981) 201- 218

1323. Okabe, M., A boundary integral approach in the geoelectrical cavity prospecting 29 (1981) 297- 311

1324. Okabe, M. and N. Kikuchi, Analytical solutions of some steady-state electrical problems in the rectangular domain 36 (1983) 167- 189

1325. Okabe, M. and N. Kikuchi, Semi-radial singularity mapping theory for line singularities in fracture mechanics 36 (1983) 257- 276

1326. Okabe, M., Modified gradient method in the nonlinear least-square estimation 37 (1983) 151- 176

1327. Okabe, M., Generalized Lagrange family for the cube with special reference to infinite-domain interpolations 38 (1983) 153- 168

1338. Okabe, M. and N. Kikuchi, Analytical solutions for the incompressible viscous flow within a rectangular domain 40 (1983) 219- 240

1339. Okabe, M., Gauss-Jacobi quadrature rules for n -simplex with applications to finite element methods 40 (1983) 293- 307

1330. Okabe, M., One-dimensional self-adaptive interpolations in the p -convergence procedure 41 (1983) 69- 89

1331. O'Leary, D.P. and W.H. Yang, Elastoplastic torsion by quadratic programming 16 (1978) 361- 368

1332. Olhoff, N., M.P. Bendsøe and J. Rasmussen, On CAD-integrated structural topology and design optimization 89 (1991) 259- 279

1333. Oliveira de, P., On the optimal design of a plate submitted to a rupture criterion 29 (1981) 67- 79

1334. Ondris, L., Solution of some symmetrical plane thermal problems by the boundary point least squares method 28 (1981) 309- 325

1335. Ondris, L., Remarks concerning the solution of stationary plane thermal problems by the boundary point least squares method 31 (1982) 331- 336

1336. Ong, T.-G., G.I.N. Rozvany and W.-T. Szeto, Least-weight design of perforated elastic plates for given compliance: Nonzero Poisson's ratio 66 (1988) 301- 322

1337. Oral, S. and A. Barut, A shear-flexible facet shell element for large deflection and instability analysis 93 (1991) 415- 431

1338. Orbison, J.G., W. McGuire and J.F. Abel, Yield surface applications in nonlinear steel frame analysis 33 (1982) 557- 573

1339. Orlov, I.V. and V.L. Yumashev, A software system for standard presentation of flow fields in computational fluid dynamics 91 (1991) 1379-1389

1340. Ortiz, M., P.M. Pinsky and R.L. Taylor, Unconditionally stable element-by-element algorithms for dynamic problems 36 (1983) 223- 239

1341. Ortiz, M., P.M. Pinsky and R.L. Taylor, Operator split methods for the numerical solution of the elastoplastic dynamic problem 39 (1983) 137- 157

1342. Ortiz, M. and B. Nour-Omid, Unconditionally stable concurrent procedures for transient finite element analysis 58 (1986) 151- 174

1343. Ortiz, M., Y. Leroy and A. Needleman, A finite element method for localized failure analysis 61 (1987) 189- 214

1344. Ortiz, M. and J.J. Quigley, IV, Adaptive mesh refinement in strain localization problems 90 (1991) 781- 804

1345. Osiadacz, A.J. and K. Rudowski, Analysis of loop methods for simulating gas networks 65 (1987) 201- 213

1346. Osmont, D., Computation of the dynamic response of structures with unilateral constraints (contact) - comparison with experimental results 34 (1982) 847- 859

1347. Osyczka, A., An approach to multicriterion optimization problems for engineering design 15 (1978) 309- 333

1348. Owen, D.J.R., J.A. Figueiras and F. Damjanic, Finite element analysis of reinforced and prestressed concrete structures including thermal loading 41 (1983) 323- 366

1349. Owen, D.R.J. and Z.H. Li, Elastic-plastic dynamic analysis of anisotropic laminated plates 70 (1988) 349- 365

1350. Öz, H. and A. Raffie, Inverse response problem (control) of dynamic systems via Hamilton's law 62 (1987) 17- 26

1351. Padovan, J., Y.H. Guo and G. Ryland, Static response of sparsely probabilistic systems 79 (1990) 113- 127

1352. Palmerio, F., A two-dimensional FEM adaptive moving-node method for steady Euler flow simulations 71 (1988) 315- 340

1353. Pan, N.-Q., W.-F. Wang, S.-J. Xu and Z.-X. Huang, Finite difference computation of the aerodynamic interference of wing-pylon-store combinations at transonic speeds 37 (1983) 1- 13

1354. Panagiotopoulos, P.D., E.S. Mistakidis and O.K. Panagouli, Fractal interfaces with unilateral contact and friction conditions 99 (1992) 395- 412

1355. Pandolfini, P.P. and R.H. Page, Resonance in a piston-driven cavity 3 (1974) 29- 36

1356. Pandya, B.N. and T. Kant, Flexural analysis of laminated composites using refined higher-order C^0 plate bending elements 66 (1988) 173- 198

1357. Pao, Y.C. and M.N. Maheshwari, Evaluation of elastic moduli of composite materials by linear programming 3 (1974) 305- 318

1358. Papadopoulos, P. and R.L. Taylor, A mixed formulation for the finite element solution of contact problems 94 (1992) 373- 389

1359. Papadrakakis, M., A method for the automatic evaluation of the dynamic relaxation parameters 25 (1981) 35- 48

1360. Papadrakakis, M. and P. Ghonnis, Conjugate gradient algorithms in nonlinear structural analysis problems 59 (1986) 11- 27

1361. Papadrakakis, M. and M. Yakoumidakis, A partial preconditioned conjugate gradient method for large eigenproblems 62 (1987) 195- 207

1362. Papadrakakis, M. and A.P. Theoharis, Tracing post-limit-point paths with incomplete or without factorization of the stiffness matrix (see also 92 (1991) 399-400) 88 (1991) 165- 187

1363. Papadrakakis, M. and M.C. Dracopoulos, A global preconditioner for the element-by-element solution methods 88 (1991) 275- 286

1364. Papamichael, N. and G.T. Symm, Numerical techniques for two-dimensional Laplacian problems 6 (1975) 175- 194

1365. Papamichael, N. and C.A. Kokkinos, Two numerical methods for the conformal mapping of simply-connected domains 28 (1981) 285- 307

1366. Papamichael, N. and C.A. Kokkinos, Numerical conformal mapping of exterior domains 31 (1982) 189- 203

1367. Parisch, H., Geometrical nonlinear analysis of shells 14 (1978) 159- 178

1368. Parisch, H., A critical survey of the 9-node degenerated shell element with special emphasis on thin shell application and reduced integration 20 (1979) 323- 350

1369. Parisch, H., Large displacements of shells including material nonlinearities 27 (1981) 183- 214

1370. Park, K.C. and P.G. Underwood, A variable-step central difference method for structural dynamics analysis - Part 2. Implementation and performance evaluation 23 (1980) 259- 279

1371. Park, K.C. and D.L. Flagg, An operational procedure for the symbolic analysis of the finite element method 42 (1984) 37- 46

1372. Park, K.C. and D.L. Flagg, A Fourier analysis of spurious mechanisms and locking in the finite element method 46 (1984) 65- 81

1373. Park, K.C., Locking, spurious mechanisms, and pressure divergence in penalty finite element methods for Stokes flow problems 47 (1984) 315- 330

1374. Park, K.C. and D.L. Flagg, A symbolic Fourier synthesis of a one-point integrated quadrilateral plate element 48 (1985) 203- 236

1375. Parks, D.M., The virtual crack extension method for nonlinear material behavior 12 (1977) 353- 364

1376. Patankar, S.V., D. Rafinejad and D.B. Spalding, Calculation of the three-dimensional boundary layer with solution of all three momentum equations 6 (1975) 283- 292

1377. Patnaik, S.N., Synthesis of waffle plates in the post buckled domain 4 (1974) 47- 68

1378. Patnaik, S.N. and M. Maiti, Optimum design of stiffened structures with constraint on the frequency in the presence of initial stresses 7 (1976) 303- 322

1379. Patnaik, S.N. and N.K. Srivastava, On automated optimum design of trusses 9 (1976) 245- 265

1380. Patnaik, S.N. and S. Yadagiri, Design for frequency by the integrated force method 16 (1978) 213- 230

1381. Patnaik, S.N. and K.T. Joseph, Generation of the compatibility matrix in the integrated force method 55 (1986) 239- 257

1382. Paumier, J.C., Stable solutions to a shell problem 20 (1979) 91- 103

1383. Peano, A.G., B.A. Szabo and A.K. Mehta, Self-adaptive finite elements in fracture mechanics 16 (1978) 69- 80

1384. Peirce, A. and J.H. Prevost, On the lack of convergence of unconditionally stable explicit rational Runge-Kutta schemes 57 (1986) 171- 180

1385. Pelletier, D., A. Garon and R. Camarero, A new finite element method for computing the flow inside rotating machinery 75 (1989) 343- 358

1386. Pelz, R.B., Pseudospectral methods on massively parallel computers 80 (1990) 493- 503

1387. Pelz, R.B., Fourier spectral method on ensemble architectures 89 (1991) 529- 542

1388. Perdon, A.M. and G. Gambolati, Extreme eigenvalues of large sparse matrices by Rayleigh quotient and modified conjugate gradients 56 (1986) 251- 264

1389. Perić, D., D.R.J. Owen and M.E. Honnor, A model for finite strain elasto-plasticity based on logarithmic strains: Computational issues 94 (1992) 35- 61

1390. Peshkam, V. and D.J. Dawe, Buckling and vibration of finite-length composite prismatic plate structures with diaphragm ends, Part II: Computer programs and buckling applications 77 (1989) 227- 252

1391. Peterson, A. and H. Petersson, On finite element analysis of geometrically nonlinear problems 51 (1985) 277- 286

1392. Petrolito, J., Hybrid-Trefftz quadrilateral elements for thick plate analysis 78 (1990) 331- 351

1393. Pettersen, Ø., Simulation of two-phase flow in porous rocks on a laboratory scale: Diffusion operator splitting and consistency 65 (1987) 229- 252

1394. Petzold, L.R., Recent developments in the numerical solution of differential/algebraic systems 75 (1989) 77- 89

1395. Peyret, R., The Chebyshev multidomain approach to stiff problems in fluid mechanics 80 (1990) 129- 145

1396. Pfaffinger, D.D., Analytical evaluation of modal covariance matrices 24 (1980) 269- 286

1397. Phelan, D.G. and R.B. Haber, Sensitivity analysis of linear elastic systems using domain parameterization and a mixed mutual energy principle 77 (1989) 31- 59

1398. Phillips, T.N., Spectral domain decomposition techniques for viscous incompressible flows 80 (1990) 389- 395

1399. Pierre, R., Simple C^0 approximations for the computation of incompressible flows 68 (1988) 205- 227

1400. Pierson, B.L. and L.J. Genalo, Minimum weight design of a rectangular panel subject to a flutter speed constraint 10 (1977) 45- 62

1401. Pierson, B.L., An optimal control approach to the design of vibrating elastic-viscoelastic sandwich beams 57 (1986) 37- 49

1402. Pijaudier-Cabot, G. and A. Huerta, Finite element analysis of bifurcation in nonlocal strain softening solids 90 (1991) 905- 919

1403. Pilitsis, S. and A.N. Beris, Pseudospectral calculations of viscoelastic flow in a periodically constricted tube 98 (1992) 307- 328

1404. Pinebrook, W.E. and C. Dalton, Drag minimization on a body of revolution through evolution 39 (1983) 179- 197

1405. Pinsky, P.M., M. Ortiz and K.S. Pister, Numerical integration of rate constitutive equations in finite deformation analysis 40 (1983) 137- 158

1406. Pinsky, P.M., A finite element formulation for elastoplasticity based on a three-field variational equation 61 (1987) 41- 60

1407. Pinsky, P.M. and R.V. Jasti, On the use of Lagrange multiplier compatible modes for controlling accuracy and stability of mixed shell finite elements 85 (1991) 151- 182

1408. Pinsky, P.M. and N.N. Abboud, Finite element solution of the transient exterior structural acoustics problem based on the use of radially asymptotic boundary operators 85 (1991) 311- 348

1409. Pires, E.B. and J.T. Oden, Analysis of contact problems with friction under oscillating loads 39 (1983) 337- 362

1410. Pironneau, O., J. Liou and T. Tezduyar, Characteristic-Galerkin and Galerkin/least-squares space-time formulations for the advection-diffusion equation with time-dependent domains 100 (1992) 117- 141

1411. Planchard, J., Computation of the acoustic eigenfrequencies of cavities containing a tube bundle (see also 29 (1981) 365-366) 24 (1980) 125- 135

1412. Planchard, J., Eigenfrequencies of a tube bundle placed in a confined fluid 30 (1982) 75- 93

1413. Planchard, J. and M. Ibnou Zahir, Natural frequencies of tube bundle in an uncompressible fluid 41 (1983) 47- 68

1414. Plank, L., E. Stein and D. Bischoff, Accuracy and adaptivity in the numerical analysis of thin-walled structures 82 (1990) 223- 256

1415. Polizzotto, C., C. Mazzarella and T. Panzeca, Optimum design for work-hardening adaptation 12 (1977) 129- 144

1416. Polizzotto, C., A formulation of the force method in the range of large displacements 16 (1978) 121- 134

1417. Polizzotto, C., An energy approach to the boundary element method. Part I: Elastic solids 69 (1988) 167- 184

1418. Polizzotto, C., An energy approach to the boundary element method. Part II: Elastic-plastic solids (see also 71 (1988) 235) 69 (1988) 263- 276

1419. Pollard, A. and D.B. Spalding, The prediction of the three-dimensional turbulent flow field in a flow-splitting Tee-junction 13 (1978) 293- 306

1420. Pollard, A. and A. Thyagaraja, A new method for handling flow problems with body forces 19 (1979) 107- 116

1421. Pollard, A. and A.L.-W. Siu, The calculation of some laminar flows using various discretisation schemes 35 (1982) 293- 313

1422. Porsching, T.A. and V.J. Esposito, Comment on: A finite difference scheme for the incompressible advection-diffusion equation (by D.G. Briggs 6 (1975) 233-241) 8 (1976) 357- 358

1423. Pos, J.D., Wave diffraction using finite and infinite elements 41 (1983) 219- 235

1424. Postell, F.V. and E.P. Stephan, On the h -, p - and $h-p$ versions of the boundary element method - Numerical results 83 (1990) 69- 89

1425. Potempa, T., A lumped finite element method for cap rock heat loss calculations 47 (1984) 177- 186

1426. Prager, W., A note on discretized Michell structures 3 (1974) 349- 355

1427. Prager, W., A note on the optimal choice of finite element grids (see also 8 (1976) 361-362) 6 (1975) 363- 366

1428. Prasad, B., An improved variable penalty algorithm for automated structural design 30 (1982) 245- 261

1429. Prasad, B., Explicit constraint approximation forms in structural optimization. Part 1: Analyses and projections 40 (1983) 1- 26

1430. Prasad, B., Explicit constraint approximation forms in structural optimization. Part 2: Numerical experiences 46 (1984) 15- 38

1431. Prevost, J.H., Nonlinear transient phenomena in saturated porous media 30 (1982) 3- 18
39 (1983) 225- 239

1432. Prevost, J.H., Implicit-explicit schemes for nonlinear consolidation 83 (1990) 275- 294

1433. Prevost, J.H. and B. Loret, Dynamic strain localization in elasto-(visco-)plastic solids, Part 2. Plane strain examples 74 (1989) 231- 250

1434. Providakis, C.P. and D.E. Beskos, Free and forced vibrations of plates by boundary elements 92 (1991) 55- 74

1435. Providakis, C.P. and D.E. Beskos, Free and forced vibrations of shallow shells by boundary and interior elements 76 (1989) 275- 298

1436. Pruett, C.D., A fast algorithm for simulation of a spatially-evolving, two-dimensional planar mixing layer 47 (1984) 331- 356

1437. Punch, E.F. and S.N. Atluri, Development and testing of stable, invariant, isoparametric curvilinear 2- and 3-D hybrid-stress elements 44 (1984) 213- 227

1438. Putcha, N.S. and J.N. Reddy, A mixed shear flexible finite element for the analysis of laminated plates 30 (1982) 209- 224

1439. Qian, L.x., W. Zhong, Y. Sui and J. Zhang, Efficient optimum design of structures - Program DDDU 93 (1991) 385- 399

1440. Qiu, X., M.E. Plesha and D.W. Meyer, Stiffness matrix integration rules for contact-friction using finite elements 24 (1980) 13- 34
24 (1980) 137- 163

1441. Quarteroni, A., On mixed methods for fourth-order problems 48 (1985) 301- 311

1442. Quarteroni, A., Mixed approximations of evolution problems 77 (1989) 181- 212

1443. Quick, R.M., M.C. Steenkamp and H.G. Miller, Relaxation techniques in the iterative '2 x 2' algorithm 54 (1986) 245- 253

1444. Rachowicz, W., J.T. Oden and L. Demkowicz, Toward a universal $h-p$ adaptive finite element strategy, Part 3. Design of $h-p$ meshes 23 (1980) 341- 353

1445. Radok, R. and P.S. Chan, A linearizing algorithm for nonlinear differential equations 4 (1974) 39- 45

1446. Radwańska, M. and Z. Waszczyzyn, Numerical analysis of nonsymmetric postbuckling behaviour of elastic annular plates 8 (1976) 139- 151

1447. Raggett, G.F., J.A.R. Stone and P.D. Wilson, On the use of cubic splines to solve certain circular plate problems 12 (1977) 315- 322

1448. Raggett, G.F., J.A.R. Stone and S.J. Wisher, The cubic spline solution of practical problems modelled by hyperbolic partial differential equations 9 (1976) 75- 103

1449. Raggett, G.F., An efficient gradient technique for the solution of optimal control problems 9 (1976) 153- 164

1450. Raithby, G.D., A critical evaluation of upstream differencing applied to problems involving fluid flow 8 (1976) 361- 362

1451. Raithby, G.D., Skew upstream differencing schemes for problems involving fluid flow

1452. Rajagopalan, K., Comment on: A note on the optimal choice of finite element grids (by W. Prager 6 (1975) 363-366)

1453. Rajagopalan, K., Optimization of prestressed concrete solid and voided slabs 20 (1979) 71- 89

1454. Rajpal, S.D.O., W.L. Cleghorn and B. Tabarrok, Improving the performance of beam elements undergoing forced vibrations 62 (1987) 245- 253

1455. Raju, P.C. and G. Venkateswara Rao, Post-buckling analysis of tapered cantilever columns 15 (1978) 201- 206

1456. Rakowski, J., A new methodology of evaluation of C^0 bending finite elements 91 (1991) 1327-1338

1457. Raman, V.M., Numerical prediction of a laminar boundary layer flow on a rotating sphere 43 (1984) 37- 44

1458. Ramesh, A.V., S. Utku and B.K. Wada, Real-time control of geometry and stiffness in adaptive structures 90 (1991) 761- 779

1459. Ramos, J.I., Modified equation techniques for reactive-diffusive systems. Part 1: Explicit, implicit and quasilinear methods 64 (1987) 195- 219

1460. Ramos, J.I., Modified equation techniques for reactive-diffusive systems. Part 2: Time linearization and operator-splitting methods 64 (1987) 221- 236

1461. Ramos, J.I., Adaptive and nonadaptive Hermitian operator methods for combustion phenomena 90 (1991) 609- 630

1462. Ranaweera, M.P. and F.A. Leckie, The use of optimization techniques in the analysis of cracked members by the finite element displacement and stress methods 19 (1979) 367- 389

1463. Ranganath, S. and R.J. Clifton, A second-order accurate difference method for systems of hyperbolic partial differential equations 1 (1972) 173- 188

1464. Rank, E. and H. Werner, A graph-theoretical approach to a plotter pen touring problem 30 (1982) 95- 102

1465. Rao, K.P., A rectangular laminated anisotropic shallow thin shell finite element 15 (1978) 13- 33

1466. Rashid, M.M. and S. Nemat-Nasser, A constitutive algorithm for rate-dependent crystal plasticity 94 (1992) 201- 228

1467. Ravier, P. and J.-P. Penicaud, Etude en éléments finis de faisceaux de particules chargées 75 (1989) 531- 542

1468. Ray, D., K.S. Pister and E. Polak, Sensitivity analysis for hysteretic dynamic systems: theory and applications 14 (1978) 179- 208

1469. Reddy, B.D. and G.P. Mitchell, The analysis of elastic-plastic plates: a quadratic programming problem and its solution by finite elements 41 (1983) 237- 248

1470. Reddy, B.D. and J.B. Martin, Algorithms for the solution of internal variable problems in plasticity 93 (1991) 253- 273

1471. Reddy, B.D. and M.B. Volpi, Mixed finite element methods for the circular arch problem 97 (1992) 125- 145

1472. Reddy, J.N., Finite element analysis of the initial stages of hypervelocity impact 9 (1976) 47- 63

1473. Reddy, J.N., Penalty-finite-element analysis of 3-D Navier-Stokes equations 35 (1982) 87- 106

1474. Reddy, M.P., J.N. Reddy and H.U. Akay, Penalty finite element analysis of incompressible flows using element by element solution algorithms 100 (1992) 169- 205

1475. Reddy, S.C. and L.N. Trefethen, Lax-stability of fully discrete spectral methods via stability regions and pseudo-eigenvalues 80 (1990) 147- 164

1476. Reed, K.W. and S.N. Atluri, Analyses of large quasistatic deformations of inelastic bodies by a new hybrid-stress finite element algorithm 39 (1983) 245- 295

1477. Reed, K.W. and S.N. Atluri, Analyses of large quasistatic deformations of inelastic bodies by a new hybrid-stress finite element algorithm: applications 40 (1983) 171- 198

1478. Rehak, M.L., F.L. Dimaggio, H. Benaroya and I. Elishakoff, Random vibrations with MACSYMA 61 (1987) 61- 70

1479. Reichel, L., On the numerical solution of some 2-D electromagnetic interface problems by the boundary collocation method 53 (1985) 1- 11

1480. Reiser, M., Large-scale numerical simulation in semiconductor device modelling 1 (1972) 17- 38

1481. Reiser, M., On the stability of finite difference schemes in transient semiconductor problems 2 (1973) 65- 68

1482. Reissner, E., Note on the effect of transverse shear deformation in laminated anisotropic plates (see also 20 (1979) 211) 20 (1979) 203- 209

1483. Reissner, E., On small finite deflections of sheardeformable elastic plates 59 (1986) 227- 233

1484. Reissner, E., On asymptotic expansions for the sixth-order linear theory problem of transverse bending of orthotropic elastic plates 85 (1991) 75- 88

1485. Rencis, J.J. and K.-Y. Jong, A self-adaptive h -refinement technique for the boundary element method 73 (1989) 295- 316

1486. Rencontre, L.J., S. Caddemi and J.B. Martin, The relationship between the generalised mid-point and trapezoidal rules in incremental elasto-plasticity 96 (1992) 201- 212

1487. Renwei, X. and L. Peng, Structural optimization based on second-order approximations of functions and dual theory 65 (1987) 101- 114

1488. Resende, L. and J.B. Martin, A progressive damage 'continuum' model for granular materials 42 (1984) 1- 18

1489. Resende, L., A damage mechanics constitutive theory for the inelastic behaviour of concrete 60 (1987) 57- 93

1490. Rezayat, M., D.J. Shippy and F.J. Rizzo, On time-harmonic elastic-wave analysis by the boundary element method for moderate to high frequencies 55 (1986) 349- 367

1491. Ricard, A., Tube collapse analysis using finite elements 34 (1982) 1065-1071

1492. Rice, J.G. and R.J. Schnipke, A monotone streamline upwind finite element method for convection-dominated flows 48 (1985) 313- 327

1493. Rice, J.G. and R.J. Schnipke, An equal-order velocity-pressure formulation that does not exhibit spurious pressure modes 58 (1986) 135- 149

1494. Rice, J.R., R.M. McMeeking, D.M. Parks and E.P. Sorensen, Recent finite element studies in plasticity and fracture mechanics 17/18 (1979) 411- 442

1495. Riks, E., Some computational aspects of the stability analysis of nonlinear structures 47 (1984) 219- 259

1496. Rippa, S. and B. Schiff, Minimum energy triangulations for elliptic problems 84 (1990) 257- 274

1497. Roberson, R.E., The path matrix of a graph, its construction and its use in evaluating certain products 42 (1984) 47- 56

1498. Roberson, R.E., Correction of numerical error when two direction cosine columns are used as kinematical variables 46 (1984) 151- 158

1499. Roberson, R.E., Correction of numerical error in kinematical differential equations when one direction cosine is known
 1500. Roberson, R.E., Comment on spanning trees for multibody dynamic simulation
 1501. Robichaud, M.P., P.A. Tanguy and M. Fortin, An improved finite element iterative method for three-dimensional fluid flow problems
 1502. Robinson, J., Basis for isoparametric stress elements
 1503. Robinson, J., A single element test
 1504. Robinson, J., A warped quadrilateral strain membrane element
 1505. Robinson, J., Stress elements with holes
 1506. Robinson, J., Automatic selection of independent freedoms in constraint conditions with constant terms
 1507. Rodi, W. and S.K. Srivatsa, A locally elliptic calculation procedure for three-dimensional flows and its application to a jet in a cross-flow
 1508. Rodi, W., S. Majumdar and B. Schönung, Finite volume methods for two-dimensional incompressible flows with complex boundaries
 1509. Rodrigues, H.C., Shape optimal design of elastic bodies using a mixed variational formulation
 1510. Rogg, B., Adaptive methods in computational fluid dynamics of chemically reacting flows
 1511. Rogier, F. and J. Segre, Mixed finite element method applied to a magnetostatic problem
 1512. Rosanoff, R.A. and H. Webel, On the convergence rate of iterative methods for the solution of positive definite linear equations
 1513. Rothert, H., H. Idelbeger, W. Jacobi and L. Niemann, On geometricaly nonlinear contact problems with friction
 1514. Rothert, H. and W. Dehmel, Nonlinear analysis of isotropic, orthotropic and laminated plates and shells
 1515. Rouff, M., On the control of partial differential equations: A C^K discretization method
 1516. Roussel, P., Numerical solution of static and dynamic equations of cables
 1517. Rozenblum, G., Modal synthesis: Generalization of the MacNeal's method. Theoretical basis
 1518. Rozvany, G.I.N., Optimal load transmission by flexure
 1519. Rozvany, G.I.N. and R.D. Hill, Optimal plastic design: superposition principles and bounds on the minimum cost
 1520. Rozvany, G.I.N., Optimal beam layouts: allowance for cost of shear
 1521. Rozvany, G.I.N. and W. Prager, A new class of structural optimization problems: Optimal archgrids
 1522. Rozvany, G.I.N., H. Nakamura and B.T. Kuhnell, Optimal archgrids: allowance for selfweight
 1523. Rozvany, G.I.N., C.-M. Wang and M. Dow, Prager-structures: Archgrids and cable networks of optimal layout
 1524. Rozvany, G.I.N. and M. Zhou, The COC algorithm, Part I: Cross-section optimization or sizing
 1525. Ruas B. Santos, V., A direct method for solving two-dimensional one-phase Stefan problems
 46 (1984) 307- 312
 48 (1985) 237- 238
 75 (1989) 359- 368
 2 (1973) 43- 63
 7 (1976) 191- 200
 7 (1976) 359- 367
 11 (1977) 309- 318
 29 (1981) 241- 244
 23 (1980) 67- 83
 75 (1989) 369- 392
 69 (1988) 29- 44
 90 (1991) 659- 670
 94 (1992) 1- 11
 7 (1976) 369- 375
 51 (1985) 139- 155
 64 (1987) 429- 446
 96 (1992) 173- 187
 9 (1976) 65- 74
 48 (1985) 139- 154
 1 (1972) 253- 263
 13 (1978) 151- 173
 19 (1979) 49- 58
 19 (1979) 127- 150
 24 (1980) 287- 304
 31 (1982) 91- 113
 89 (1991) 281- 308
 25 (1981) 51- 64

1526. Ruas, V., A class of asymmetric simplicial finite element methods for solving finite incompressible elasticity problems 27 (1981) 319- 343

1527. Rubinstein, R. and S.N. Atluri, Objectivity of incremental constitutive relations over finite time steps in computational finite deformation analyses 36 (1983) 277- 290

1528. Rubinstein, R., E.F. Punch and S.N. Atluri, An analysis of, and remedies for, kinematic modes in hybrid-stress finite elements: selection of stable, invariant stress fields 38 (1983) 63- 92
5 (1975) 211- 225

1529. Ryaben'kii, V.S., Local splines 92 (1991) 343- 352

1530. Saha, S., P.C. Das and N.N. Kishore, A finite element adaptive-refinement strategy for the capillary surface problem 84 (1990) 97- 107

1531. Saigal, S., Iteration schemes for improved convergence in boundary element reanalysis 6 (1975) 249- 264

1532. Saito, Y. and K. Miyazawa, Digital simulation of polyphase induction motors 8 (1976) 335- 348

1533. Saito, Y., Numerical method for space harmonic waves in polyphase induction motors 11 (1977) 151- 164

1534. Saito, Y., Numerical methods for polyphase induction motors 13 (1978) 105- 118

1535. Saito, Y., Method of magnetic circuits for nonlinear magnetostatic fields in polyphase induction motors at no-load 16 (1978) 101- 115

1536. Saito, Y., Three-dimensional analysis of nonlinear magnetostatic fields in a saturable reactor 22 (1980) 289- 308

1537. Saito, Y., Three-dimensional analysis of nonlinear magnetodynamic fields in a saturable reactor 38 (1983) 185- 202

1538. Saito, Y., H. Saotome and T. Yamamura, A lumped circuit model for a nonlinear inductor exhibiting dynamic hysteresis loops and its application to the electric circuits 49 (1985) 109- 119

1539. Saito, Y., S. Hayano, N. Tsuya and H. Saotome, Digital simulation of parallel inverters 10 (1977) 325- 338

1540. Salama, M. and S. Utku, Stress computation in displacement methods for two-material elastic media 21 (1980) 211- 216

1541. Salariya, A.K., Numerical solution of a differential equation in fluid mechanics 60 (1987) 95- 121

1542. Saleeb, A.F. and T.Y. Chang, On the hybrid-mixed formulation of C^0 curved beam elements 75 (1989) 393- 407

1543. Samagaio, A. and N.S. Vlachos, Calculation of three-dimensional laminar flows in T-shaped junctions 60 (1987) 303- 315

1544. Sami, S., G. Collier and D.L. Eddington, Numerical modelling of high-speed modulated water jets 17/18 (1979) 315- 340

1545. Sander, G., M. Geradin, C. Nyssen and M. Hogge, Accuracy versus computational efficiency in nonlinear dynamics 75 (1989) 91- 107

1546. Sanders, R. and A. Weiser, A high order staggered grid method for hyperbolic systems of conservation laws in one space dimension 7 (1976) 75- 91

1547. Sandhu, R.S. and U. Salaam, Variational formulation of linear problems with nonhomogeneous boundary conditions and internal discontinuities

1548. Sandhu, R.S. and K.J. Singh, Reduced integration for improved accuracy of finite element approximations 14 (1978) 23- 37

1549. Saran, M., On the influence of the discretization density in the nonlinear analysis of frames 43 (1984) 173- 180

1550. Sarigul, N., J. Maitan and H.A. Kamel, Solution of nonlinear structural problems using array processors 34 (1982) 939- 954

1551. Satofuka, N., Large-scale method of lines solution of fluid dynamic equations on Japanese supercomputers 87 (1991) 353- 361

1552. Sawley, M.L. and S. Wüthrich, Non-equilibrium hypersonic flow simulations using the second-order boundary layer equations 89 (1991) 129- 140

1553. Schäfer, H., A contribution to the solution of contact problems with the aid of bond elements 6 (1975) 335- 353

1554. Schek, H.-J., The force density method for form finding and computation of general networks 3 (1974) 115- 134

1555. Schiehlen, W., Computational aspects in multibody system dynamics 90 (1991) 569- 582

1556. Schnabel, R.B., Concurrent function evaluations in local and global optimization 64 (1987) 537- 552

1557. Schnitzspan, H., Comment on "Continuous and discontinuous finite element methods for Burgers' equation", by P. Arminjon and C. Beauchamp (25 (1981) 65-84) 28 (1981) 361- 363

1558. Schönauer, W., K. Raith and G. Glotz, The principle of the difference of difference quotients as a key to the self-adaptive solution of nonlinear partial differential equations 28 (1981) 327- 359

1559. Schreurs, P.J.G., F.E. Veldpaus and W.A.M. Brekelmans, Simulation of forming processes, using the arbitrary Eulerian-Lagrangian formulation 58 (1986) 19- 36

1560. Schreyer, H.L., The generation of element stiffness matrices from base matrices in the node space 94 (1992) 263- 283

1561. Schulkes, R.M.S.M. and C. Cuvelier, On the computation of normal modes of a rotating, viscous, incompressible fluid with a capillary free boundary 92 (1991) 97- 120

1562. Schulz, J.C., Global mode hourgassing control 64 (1987) 553- 566

1563. Schwarz, H.R., Eigenfrequencies of tuning-forks 1 (1972) 159- 172

1564. Schwarz, H.R., Stability of Kepler motion 1 (1972) 279- 299

1565. Schwarz, H.R., The eigenvalue problem $(A - \lambda B)x = 0$ for symmetric matrices of high order 3 (1974) 11- 28

1566. Schwarz, H.R., Two algorithms for treating $Ax = \lambda Bx$ 12 (1977) 181- 199

1567. Schweizerhof, K.H. and P. Wriggers, Consistent linearization for path following methods in nonlinear FE analysis 59 (1986) 261- 279

1568. Segal, A., On the numerical solution of the Stokes equations using the finite element method 19 (1979) 165- 185

1569. Selmin, V., J. Donea and L. Quartapelle, Finite element methods for nonlinear advection 52 (1985) 817- 845

1570. Sepehrnoori, K. and G.F. Carey, Numerical integration of semidiscrete evolution systems 27 (1981) 45- 61

1571. Serbin, S.M., On a fourth-order unconditionally stable scheme for damped second-order systems 23 (1980) 333- 340

1572. Sguazzero, P., M. Kindelan and A. Kamel, Dispersion-bounded numerical integration of the elastodynamic equations with cost-effective staggered schemes 80 (1990) 165- 172

1573. Shabana, A.A., Transient analysis of flexible multi-body systems. Part I: dynamics of flexible bodies 54 (1986) 75- 91

1574. Shabana, A.A. and S.K. Niamathullah, Total Lagrangian formulation for large-displacement analysis of the triangular finite elements 72 (1989) 195- 199

1575. Shakib, F., T.J.R. Hughes and Z. Johan, A multi-element group preconditioned GMRES algorithm for nonsymmetric systems arising in finite element analysis 75 (1989) 415- 456

1576. Shakib, F. and T.J.R. Hughes, A new finite element formulation for computational fluid dynamics: IX. Fourier analysis of space-time Galerkin/least-squares algorithms 87 (1991) 35- 58

1577. Shakib, F., T.J.R. Hughes and Z. Johan, A new finite element formulation for computational fluid dynamics: X. The compressible Euler and Navier-Stokes equations 89 (1991) 141- 219

1578. She, Z.-S., E. Jackson and S.A. Orszag, Vortex structure and dynamics in turbulence 80 (1990) 173- 183

1579. Sheela, B.V. and P. Ramamoorthy, SWIFT - A new constrained optimization technique 6 (1975) 309- 317

1580. Sheela, B.V., An optimized step-size random search (OSSRS) 19 (1979) 99- 106

1581. Shen, J., Numerical simulation of the regularized driven cavity flows at high Reynolds numbers 80 (1990) 273- 280

1582. Shen, K.-Y. and S.J. Luo, A second-order approximate method for transonic small-disturbance potential flow and its application to the analysis of flows over airfoils 49 (1985) 149- 161

1583. Shen, K.-Y. and X.-H. Zhang, Transonic flow calculations for rigid and flexible wings using a higher-order approximation method 60 (1987) 139- 151

1584. Shephard, M.S., M.A. Yerry and P.L. Baehmann, Automatic mesh generation allowing for efficient a priori and a posteriori mesh refinement 55 (1986) 161- 180

1585. Shephard, M.S., P.L. Baehmann, M.K. Georges and E.V. Korngold, Framework for the reliable generation and control of analysis idealization 82 (1990) 257- 280

1586. Shestopal, V.O. and O.Y. Shestopal, Flow of metal in high-temperature extrusion 25 (1981) 85- 99

1587. Shi, Z.-c., Convergence properties of two nonconforming finite elements 48 (1985) 123- 137

1588. Shi, Z.-C., Convergence of the TRUNC Plate Element 62 (1987) 71- 88

1589. Shin, Y.S., R.T. Haftka, L.T. Watson and R.H. Plaut, Tracing structural optima as a function of available resources by a homotopy method 70 (1988) 151- 164

1590. Shopov, P.J. and I.B. Bazhlekov, Numerical method for viscous hydrodynamic problems with dynamic contact lines 91 (1991) 1157-1174

1591. Shore, S., J.L. Wilson and G.A. Semsarzadeh, Interactive techniques with graphical output for bridge analyses 5 (1975) 197- 209

1592. Shubin, G.R. and J.B. Bell, An analysis of grid orientation effect in numerical simulation of miscible displacement 47 (1984) 47- 71

1593. Shyy, W., Determination of relaxation factors for high cell Peclet number flow simulation 43 (1984) 221- 230

1594. Shyy, W., A numerical study of annular dump diffuser flows 53 (1985) 47- 65

1595. Shyy, Y.K., C. Fleury and K. Izadpanah, Shape optimal design using high-order elements 71 (1988) 99- 116

1596. Siekmann, J. and K. Dittrich, Computer study of bubble motion in a rotating liquid 10 (1977) 291- 301

1597. Siekmann, J., W. Scheideler and P. Tietze, Static meniscus configurations in propellant tanks under reduced gravity 28 (1981) 103- 116

1598. Sikora, Z., On well-posedness of BVP in localization problems 90 (1991) 885- 903

1599. Silling, S.A., Finite difference modeling of phase changes and localization in elasticity 70 (1988) 251- 273

1600. Silvester, D.J. and N. Kechkar, Stabilised bilinear-constant velocity-pressure finite elements for the conjugate gradient solution of the Stokes problem 79 (1990) 71- 86

1601. Simha Prasad, D.S. and V.S. Holla, Doublet lattice method - schemes for CPU time reduction 23 (1980) 59- 65

1602. Simo, J.C. and R.L. Taylor, Penalty function formulations for incompressible nonlinear elastostatics 35 (1982) 107- 118

1603. Simo, J.C., K.D. Hjelmstad and R.L. Taylor, Numerical formulations of elasto-viscoplastic response of beams accounting for the effect of shear 42 (1984) 301- 330

1604. Simo, J.C. and K.S. Pister, Remarks on rate constitutive equations for finite deformation problems: computational implications 46 (1984) 201- 215

1605. Simo, J.C. and R.L. Taylor, Consistent tangent operators for rate-independent elastoplasticity 48 (1985) 101- 118

1606. Simo, J.C., A finite strain beam formulation. The three-dimensional dynamic problem. Part I 49 (1985) 55- 70

1607. Simo, J.C. and M. Ortiz, A unified approach to finite deformation elastoplastic analysis based on the use of hyperelastic constitutive equations 49 (1985) 221- 245

1608. Simo, J.C., P. Wriggers and R.L. Taylor, A perturbed Lagrangian formulation for the finite element solution of contact problems 50 (1985) 163- 180

1609. Simo, J.C., R.L. Taylor and K.S. Pister, Variational and projection methods for the volume constraint in finite deformation elasto-plasticity 51 (1985) 177- 208

1610. Simo, J.C. and L. Vu-Quoc, A three-dimensional finite-strain rod model. Part II: Computational aspects 58 (1986) 79- 116

1611. Simo, J.C., On a fully three-dimensional finite-strain viscoelastic damage model: Formulation and computational aspects 60 (1987) 153- 173

1612. Simo, J.C., A J_2 -flow theory exhibiting a corner-like effect and suitable for large-scale computation 62 (1987) 169- 194

1613. Simo, J.C. and L. Vu-Quoc, On the dynamics in space of rods undergoing large motions - a geometrically exact approach 66 (1988) 125- 161

1614. Simo, J.C., A framework for finite strain elastoplasticity based on maximum plastic dissipation and the multiplicative decomposition: Part I. Continuum formulation 66 (1988) 199- 219

1615. Simo, J.C., A framework for finite strain elastoplasticity based on maximum plastic dissipation and the multiplicative decomposition. Part II: Computational aspects 68 (1988) 1- 31

1616. Simo, J.C. and D.D. Fox, On a stress resultant geometrically exact shell model. Part I: Formulation and optimal parametrization 72 (1989) 267- 304

1617. Simo, J.C., D.D. Fox and M.S. Rifai, On a stress resultant geometrically exact shell model. Part II: The linear theory; Computational aspects 73 (1989) 53- 92

1618. Simo, J.C., J.G. Kennedy and R.L. Taylor, Complementary mixed finite element formulations for elastoplasticity 74 (1989) 177- 206

1619. Simo, J.C., D.D. Fox and M.S. Rifai, On a stress resultant geometrically exact shell model. Part III: Computational aspects of the nonlinear theory 79 (1990) 21- 70

1620. Simo, J.C., M.S. Rifai and D.D. Fox, On a stress resultant geometrically exact shell model. Part IV: Variable thickness shells with through-the-thickness stretching 81 (1990) 91- 126

1621. Simo, J.C. and R.L. Taylor, Quasi-incompressible finite elasticity in principal stretches. Continuum basis and numerical algorithms 85 (1991) 273- 310

1622. Simo, J.C., Nonlinear stability of the time-discrete variational problem of evolution in nonlinear heat conduction, plasticity and viscoplasticity 88 (1991) 111- 131

1623. Simo, J.C., D.D. Fox and T.J.R. Hughes, Formulations of finite elasticity with independent rotations 95 (1992) 277- 288

1624. Simo, J.C. and J.G. Kennedy, On a stress resultant geometrically exact shell model. Part V. Nonlinear plasticity: formulation and integration algorithms 96 (1992) 133- 171

1625. Simo, J.C., The (symmetric) Hessian for geometrically nonlinear models in solid mechanics: Intrinsic definition and geometric interpretation 96 (1992) 189- 200

1626. Simo, J.C. and C. Miehe, Associative coupled thermoplasticity at finite strains: Formulation, numerical analysis and implementation 98 (1992) 41- 104

1627. Simo, J.C., Algorithms for static and dynamic multiplicative plasticity that preserve the classical return mapping schemes of the infinitesimal theory 99 (1992) 61- 112

1628. Simo, J.C., N. Tarnow and K.K. Wong, Exact energy-momentum conserving algorithms and symplectic schemes for nonlinear dynamics 100 (1992) 63- 116

1629. Singh, B. and J. Lal, Effect of magnetic field orientation and wall conductivity on MHD channel flows using finite element method 40 (1983) 159- 170

1630. Singh, J.P. and S.S. Dey, Parametric instability of rectangular plates by the energy based finite difference method 97 (1992) 1- 21

1631. Singh, K.P. and B. Paul, A method for solving ill-posed integral equations of the first kind 2 (1973) 339- 348

1632. Singhal, A.K. and D.B. Spalding, Predictions of two-dimensional boundary layers with the aid of the $k-\epsilon$ model of turbulence 25 (1981) 365- 383

1633. Sjønæs, E., The determination of optimum accelerating factors for successive overrelaxation on an equidistant and non-equidistant rectangular net 19 (1979) 223- 234

1634. Sjøntoft, E. and S. Steenstrup, The determination of optimum acceleration factors for successive overrelaxation on a rectangular net for inhomogeneous media
 21 (1980) 357- 360

1635. Šlužalec, A., Thermo-elastic stresses within a rectangular conductor carrying an alternating current
 61 (1987) 253- 264

1636. Šlužalec, A., Temperature rise in elastic-plastic metal
 96 (1992) 293- 302

1637. Smith, R.E. and L.-E. Eriksson, Algebraic grid generation
 64 (1987) 285- 300

1638. Smolinski, P., T. Belytschko and W.K. Liu, Stability of multi-time step partitioned transient analysis for first-order systems of equations
 65 (1987) 115- 125

1639. Smolinski, P., A variational formulation for the generalized Galerkin method for the convection-diffusion equation
 73 (1989) 93- 98

1640. Smolinski, P., A variable multi-step method for transient heat conduction
 86 (1991) 61- 71

1641. Smolinski, P., Stability of variable explicit time integration for unsteady diffusion problems
 93 (1991) 247- 252

1642. Smolinski, P., An explicit multi-time step integration method for second order equations
 94 (1992) 25- 34

1643. Smolinski, P., Stability analysis of a multi-time step explicit integration method
 95 (1992) 291- 300

1644. Soliman, M.O. and A.J. Baker, Accuracy and convergence of a finite element algorithm for turbulent boundary layer flow
 28 (1981) 81- 102

1645. Somervaille, I., Quadrature matrices and elastica problems
 69 (1988) 345- 354

1646. Song, J.O. and E.J. Haug, Dynamic analysis of planar flexible mechanisms
 24 (1980) 359- 381

1647. Song, Y., A numerical study of ignition in a premixed flame burner
 90 (1991) 671- 686

1648. Sorensen, E.P., A numerically expedient scheme for elastic-plastic calculations in incremental finite element analysis
 13 (1978) 89- 93

1649. Soriano, H.L., Rutishauser's modified method for computing the eigenvalues of symmetric matrices
 35 (1982) 255- 269

1650. Sotomayer, W.A., L.N. Sankar and J.B. Malone, A comparison of numerical algorithms for unsteady transonic flow
 64 (1987) 237- 265

1651. Soubbararamayer and J. Billet, A numerical method for optimizing the gas flow field in a centrifuge
 24 (1980) 165- 185

1652. Soulaïmani, A., M. Fortin, Y. Ouellet, G. Dhatt and F. Bertrand, Simple continuous pressure elements for two- and three-dimensional incompressible flows
 62 (1987) 47- 69

1653. Soulaïmani, A., M. Fortin, G. Dhatt and Y. Ouellet, Finite element simulation of two- and three-dimensional free surface flows
 86 (1991) 265- 296

1654. Sparis, P.D. and S.G. Mouroutsos, Cranking planar mechanisms on a microcomputer
 40 (1983) 261- 276

1655. Sparis, P.D., A. Karkanis and S. Pergantis, Conjugate method solutions of the biharmonic equation for the generation of boundary orthogonal grids
 98 (1992) 273- 290

1656. Spilker, R.L. and B.E. Engelmann, Hybrid-stress isoparametric elements for moderately thick and thin multilayer plates
 56 (1986) 339- 361

1657. Srinatha, H.R. and R.W. Lewis, A finite element method for thermo-viscoelastic analysis of plane problems
 25 (1981) 21- 33

1658. Srinivasan, R.S. and S.V. Ramachandran, Large deflection of clamped skew plates
7 (1976) 219- 233

1659. Stavitsky, D., E. Macagno and J. Christensen, On the eighteen degrees of freedom triangular element
26 (1981) 265- 283

1660. Stavrinidis, C.P., Elimination of singularities in harmonic elements
10 (1977) 355- 357

1661. Stavrinidis, C.P., A procedure for coupling dynamical equations
20 (1979) 1- 7

1662. Steger, J.L., Coefficient matrices for implicit finite difference solution of the inviscid fluid conservation law equations
13 (1978) 175- 188

1663. Steger, J.L. and J.A. Benek, On the use of composite grid schemes in computational aerodynamics
64 (1987) 301- 320

1664. Stein, E. and R. Ahmad, On the stress computation in finite element models based upon displacement approximations
4 (1974) 81- 96

1665. Stein, E. and R. Ahmad, An equilibrium method for stress calculation using finite element displacement models
10 (1977) 175- 198

1666. Stein, E. and P. Wriggers, Calculation of impact-contact problems of thin elastic shells taking into account geometrical nonlinearities within the contact region
34 (1982) 861- 880

1677. Stein, E., D. Bischoff, G. Brand and L. Plank, Adaptive multi-grid methods for finite element systems with bi- and unilateral constraints
52 (1985) 873- 884

1668. Stein, E. and R. Rolfs, Mechanical conditions for stability and optimal convergence of mixed finite elements for linear plane elasticity
84 (1990) 77- 95

1669. Stein, L.R., R.A. Gentry and C.W. Hirt, Computational simulation of transient blast loading on three-dimensional structures
11 (1977) 57- 74

1670. Steinmann, P. and K. Willam, Performance of enhanced finite element formulation in localized failure computation
90 (1991) 845- 867

1671. Stenberg, R., On some three-dimensional finite elements for incompressible media
63 (1987) 261- 269

1672. Stephan, E. and W.L. Wendland, Boundary element method for membrane and torsion crack problems
36 (1983) 331- 358

1673. Stetson, K.A., I.R. Harrison and G.E. Palma, Redesigning structural vibration modes by inverse perturbation subject to minimal change theory
16 (1978) 151- 175

1674. Stolarski, H. and T. Belytschko, Large deformation rigid-plastic dynamics by an extremum principle
21 (1980) 217- 230

1675. Stolarski, H. and T. Belytschko, Shear and membrane locking in curved C^0 elements
41 (1983) 219- 296

1676. Stolarski, H., N. Carpenter and T. Belytschko, A Kirchhoff-mode method for C^0 bilinear and serendipity plate elements
50 (1985) 121- 145

1677. Stolarski, H. and T. Belytschko, On the equivalence of mode decomposition and mixed finite elements based on the Hellinger-Reissner principle. Part I: Theory
58 (1986) 249- 263

1678. Stolarski, H. and T. Belytschko, On the equivalence of mode decomposition and mixed finite elements based on the Hellinger-Reissner principle. Part II: Applications
58 (1986) 265- 284

1679. Stolarski, H. and T. Belytschko, Limitation principles for mixed finite elements based on the Hu-Washizu variational formulation
60 (1987) 195- 216

1680. Storti, M., L.A. Crivelli and S.R. Idelsohn, An efficient tangent scheme for solving phase-change problems
66 (1988) 65- 86

1681. Storti, M., N. Nigro and S. Idelsohn, Multigrid methods and adaptive refinement techniques in elliptic problems by finite element methods 93 (1991) 13- 30

1682. Strang, G. and R.V. Kohn, Hencky-Prandtl nets and constrained Michell trusses 36 (1983) 207- 222

1683. Strouboulis, T., P. Devloo and J.T. Oden, A moving-grid finite element algorithm for supersonic flow interaction between moving bodies 59 (1986) 235- 255

1684. Strouboulis, T. and J.T. Oden, A posteriori error estimation of finite element approximations in fluid mechanics 78 (1990) 201- 242

1685. Strouboulis, T. and K.A. Haque, Recent experiences with error estimation and adaptivity, Part I: Review of error estimators for scalar elliptic problems 97 (1992) 399- 436

1686. Strouboulis, T. and K.A. Haque, Recent experiences with error estimation and adaptivity, Part II: Error estimation for h -adaptive approximations on grids of triangles and quadrilaterals 100 (1992) 359- 430

1687. Stubley, G.D., G.D. Raithby, A.B. Strong and K.A. Woolner, Simulation of convection and diffusion processes by standard finite difference schemes and by influence schemes 35 (1982) 153- 168

1688. Subrahmanyam, M.B. and T. Wah, Vibration of quadrilateral plates 43 (1984) 315- 323

1689. Succi, S., G. Radicati, Y. Robert, K. Appert and J. Vaclavik, Finite element modelling of weak plasma turbulence 75 (1989) 543- 556

1690. Suh, Y.S., A. Agah-Tehrani and K. Chung, Stress analysis of axisymmetric extrusion in the presence of strain-induced anisotropy modeled as combined isotropic-kinematic hardening 93 (1991) 127- 150

1691. Sun, J.Q. and C.S. Hsu, Global analysis of nonlinear dynamical systems with fuzzy uncertainties by the cell mapping method 83 (1990) 109- 120

1692. Sutcliffe, W.J. and J. Mistry, Shell segmentation requirements for numerical integration solutions 7 (1976) 179- 190

1693. Suzuki, K. and N. Kikuchi, A homogenization method for shape and topology optimization 93 (1991) 291- 318

1694. Svartberg, K., Optimization of geometry in truss design 28 (1981) 63- 80

1695. Svec, O.J. and G.M. McNeice, Finite element analysis of finite sized plates bonded to an elastic half-space 1 (1972) 265- 277

1696. Svec, O.J., The unbonded contact problem of a plate on the elastic half space 3 (1974) 105- 113

1697. Swannell, P. and C.H. Tranberg, Procedures for the forced, damped vibration analysis of structural frames using distributed parameter models 16 (1978) 291- 302

1698. Swoboda, G. and O. Neuner, Non-linear analysis of prestressed plates 34 (1982) 1073-1088

1699. Szabó, B.A., Mesh design for the p -version of the finite element method 55 (1986) 181- 197

1700. Szabó, B.A., The p - and $h\cdot p$ versions of the finite element method in solid mechanics 80 (1990) 185- 195

1702. Szabó, B.A., The use of a priori estimates in engineering computations 82 (1990) 139- 154

1702. Szabó, L., Discussion of "On constitutive relations at finite strain: hypoelasticity and elasto-plasticity with isotropic or kinematic hardening, by S.N. Atluri" 67 (1988) 125- 127

1703. Sze, K.Y. and C.L. Chow, Efficient hybrid/mixed elements using admissible matrix formulation 99 (1992) 1- 26

1704. Szelag, D. and Z. Mroz, Optimal design of vibrating beams with unspecified support reactions 19 (1979) 333- 349

1705. Szilard, R., An energy balancing method for large displacement analysis of structures 34 (1982) 801- 817

1706. Szmidt, K., Discrete radiation boundary conditions for a semi-infinite layer of fluid 40 (1983) 245- 260

1707. Szmidt, K., Finite element approach to steady-state vibrations in a fluid of finite depth 46 (1984) 259- 276

1708. Szmidt, K., Finite difference method and a spurious reflection of waves in a layer of fluid 60 (1987) 31- 44

1709. Szymczak, W.G., An analysis of viscous splitting and adaptivity for steady-state convection-diffusion problems 67 (1988) 311- 354

1710. Tabarrok, B. and S. Dost, Some variational formulations for large deformation analysis of plates 22 (1980) 279- 288

1711. Tabarrok, B. and M. Ziad Saghir, A new mixed formulation for 2D incompressible flows 43 (1984) 81- 102

1712. Tabarrok, B. and L. Assamoi, A new variational principle in elastodynamics 61 (1987) 303- 321

1713. Tabarrok, B., M. Farshad and H. Yi, Finite element formulation of spatially curved and twisted rods 70 (1988) 275- 299

1714. Tabarrok, T., J. Xu and R.G. Fenton, A finite element procedure for plane strain metal flow within specified plastic boundaries 63 (1987) 1- 14

1715. Tadmor, E., Shock capturing by the spectral viscosity method 80 (1990) 197- 208

1716. Takahashi, S. and C.A. Brebbia, Validation of the boundary element flexibility approach for elastic contact analysis 93 (1991) 151- 168

1717. Talaslidis, D. and G. Wempner, A simple finite element for elastic-plastic deformations of shells 34 (1982) 1051-1064

1718. Tamaddon-Jahromi, H.R., P. Townsend and M.F. Webster, Numerical solution of unsteady viscous flows 95 (1992) 301- 315

1719. Tamma, K.K. and S.B. Raikar, Nonlinear/linear unified thermal stress formulations: Transfinite element approach 64 (1987) 415- 428

1720. Tamma, K.K. and R.R. Namburu, A new finite element based Lax-Wendroff/Taylor-Galerkin methodology for computational dynamics 71 (1988) 137- 150

1721. Tanaka, M. and Y. Masuda, Boundary element method applied to certain structural-acoustic coupling problems 71 (1988) 225- 234

1722. Tang, J.W. and D.J. Turcke, Characteristics of optimal grids 11 (1977) 31- 37

1723. Tanner, R.I., R.E. Nickell and R.W. Bilger, Finite element methods for the solution of some incompressible non-Newtonian fluid mechanics problems with free surfaces (Erratum, 6 (3) (1975)) 6 (1975) 155- 174

1724. Tasaka, S., Stability analysis of a finite element scheme for the heat equation with a random initial condition 29 (1981) 109- 113

1725. Tasaka, S., Convergence of statistical finite element solutions of the heat equation with a random initial condition 39 (1983) 131- 136

1726. Taylor, C. and A.Z. Ijam, A finite element numerical solution of natural convection in enclosed cavities (see also 25 (1981) 49-50) 19 (1979) 429- 446

1727. Taylor, L.M. and E.B. Becker, Some computational aspects of large deformation, rate-dependent plasticity problems 41 (1983) 251- 277

1728. Taylor, L.M., E.-P. Chen and J.S. Kuszmaul, Microcrack-induced damage accumulation in brittle rock under dynamic loading 55 (1986) 301- 320

1729. Teixeira de Freitas, J.A., A kinematic model for plastic limit analysis of solids by the boundary integral method 88 (1991) 189- 205

1730. Tessler, A. and T.J.R. Hughes, An improved treatment of transverse shear in the Mindlin-type four-node quadrilateral element 39 (1983) 311- 335

1731. Tessler, A. and T.J.R. Hughes, A three-node Mindlin plate element with improved transverse shear 50 (1985) 71- 101

1732. Tessler, A., A priori identification of shear locking and stiffening in triangular Mindlin elements 53 (1985) 183- 200

1733. Tessler, A., A C^0 -anisoparametric three-node shallow shell element 78 (1990) 89- 103

1734. Tessler, A., A higher-order plate theory with ideal finite element suitability 85 (1991) 183- 205

1735. Tezduyar, T.E. and D.K. Ganjoo, Petrov-Galerkin formulations with weighting functions dependent upon spatial and temporal discretization: Applications to transient convection-diffusion problems 59 (1986) 49- 71

1736. Tezduyar, T.E. and Y.J. Park, Discontinuity-capturing finite element formulations for nonlinear convection-diffusion-reaction equations 59 (1986) 307- 325

1737. Tezduyar, T.E., Finite element formulation of the vorticity-stream function form of the incompressible Euler equations on multiply-connected domains 73 (1989) 331- 339

1738. Tezduyar, T.E. and J. Liou, Adaptive implicit-explicit finite element algorithms for fluid mechanics problems 78 (1990) 165- 179

1739. Tezduyar, T.E. and J. Liou, Computation of spatially periodic flows based on the vorticity-stream function formulation 83 (1990) 121- 142

1740. Tezduyar, T.E. and J. Liou, On the downstream boundary conditions for the vorticity-stream function formulation of two-dimensional incompressible flows 85 (1991) 207- 217

1741. Tezduyar, T.E., S. Mittal and R. Shih, Time-accurate incompressible flow computations with quadrilateral velocity-pressure elements 87 (1991) 363- 384

1742. Tezduyar, T.E., M. Behr and J. Liou, A new strategy for finite element computations involving moving boundaries and interfaces—The deforming-spatial-domain/space-time procedure: I. The concept and the preliminary numerical tests 94 (1992) 339- 351

1743. Tezduyar, T.E., M. Behr, S. Mittal and J. Liou, A new strategy for finite element computations involving moving boundaries and interfaces—The deforming-spatial-domain/space-time procedure: II. Computation of free-surface flows, two-liquid flows, and flows with drifting cylinders 94 (1992) 353- 371

1744. Tezduyar, T.E., S. Mittal, S.E. Ray and R. Shih, Incompressible flow computations with stabilized bilinear and linear equal-order-interpolation velocity-pressure elements 95 (1992) 221- 242

1745. Tezduyar, T.E., M. Behr, S.K. Aliabadi, S. Mittal and S.E. Ray, A new mixed preconditioning method for finite element computations 99 (1992) 27- 42

1746. Theocaris, P.S., N. Ioakimidis and A.C. Chrysakis, On the application of numerical integration rules to the solution of some singular integral equations
24 (1980) 1- 11

1747. Theocaris, P.S., G. Tsamasphyros and E.E. Theotokoglou, A combined integral-equation and finite-element method for the evaluation of stress intensity factors
31 (1982) 117- 127

1748. Theodorou, G. and D. Bellet, Laminar flows of a non-Newtonian fluid in mild stenosis
54 (1986) 111- 123

1749. Thierauf, G., A method for optimal limit design of structures with alternative loads
16 (1978) 135- 149

1750. Thoenes, J., S.J. Robertson and L.W. Spradley, Application of finite element methods to viscous subsonic flow
51 (1985) 495- 506

1751. Thomas, G., Boundedness and definiteness qualities of a functional equation for nonconforming trial functions
15 (1978) 335- 351

1752. Thompson, J.F., A general three-dimensional elliptic grid generation system on a composite block structure
64 (1987) 377- 411

1753. Tielking, J.T. and R.A. Schapery, A method for shell contact analysis
26 (1981) 181- 195

1754. Tikhonov, V.S. and V.I. Lebedev, Calculation of frequency responses of a flexible string in a rotational motion
38 (1983) 169- 183

1755. Tin-Loi, F. and M.B. Wong, Nonholonomic computer analysis of elastoplastic frames
72 (1989) 351- 364

1756. Tomita, Y. and A. Shindo, On the bifurcation and post-bifurcation behaviour of thick circular elastic-plastic tubes under lateral pressure
35 (1982) 207- 219

1757. Tortorelli, D.A., R.B. Haber and S.C.-Y. Lu, Design sensitivity analysis for nonlinear thermal systems
77 (1989) 61- 77

1758. Touzani, R., Implementation of the discontinuous finite element method for hyperbolic equations
68 (1988) 115- 123

1759. Trowbridge, C.W., Low frequency electromagnetic field computation in three dimensions
52 (1985) 653- 674

1760. Tsamasphyros, G. and P.S. Theocaris, A recurrence formula for the direct solution of singular integral equations
31 (1982) 79- 89

1761. Tsamasphyros, G. and A.E. Giannakopoulos, The mapped elements for the solution of cracked bodies
49 (1985) 331- 342

1762. Tsamasphyros, G., Methods for combination of finite element and singular integral equation methods
60 (1987) 45- 56

1763. Tsay, J.J. and J.S. Arora, Nonlinear structural design sensitivity analysis for path dependent problems. Part 1. General theory
81 (1990) 183- 208

1764. Tsay, J.J., J.E.B. Cardoso and J.S. Arora, Nonlinear structural design sensitivity analysis for path dependent problems. Part 2. Analytical examples
81 (1990) 209- 228

1765. Tuğcu, P., Tensile instability in a round bar including the effect of material strain-rate sensitivity
93 (1991) 335- 351

1766. Twizell, E.H. and A.Q.M. Khalil, A difference scheme with high accuracy in time for fourth-order parabolic equations
41 (1983) 91- 104

1767. Twizell, E.H., A sixth-order extrapolation method for special nonlinear fourth-order boundary value problems
62 (1987) 293- 303

1768. Twizell, E.H., A family of numerical methods for the solution of high-order general initial value problems
67 (1988) 15- 25

1769. Tworzydlo, W.W., J.T. Oden and E.A. Thornton, Adaptive implicit/explicit finite element method for compressible viscous flows 95 (1992) 397- 440

1770. Tworzydlo, W.W., C.Y. Huang and J.T. Oden, Adaptive implicit/explicit finite element methods for axisymmetric viscous turbulent flows with moving boundaries 97 (1992) 245- 288

1771. Ueda, Y. and T. Yao, The plastic node method: A new method of plastic analysis 34 (1982) 1089-1104

1772. Ueda, Y., K. Nakacho and M. Fujikubo, Application of the plastic node method to thermal elastic-plastic and dynamic problems 51 (1985) 157- 175

1773. Ueda, Y. and M. Fujikubo, Generalization of the plastic node method 92 (1991) 33- 53

1774. Ueda, Y. and M. Fujikubo, Plastic node method considering strain-hardening effects 94 (1992) 317- 337

1775. Underwood, P.G. and K.C. Park, A variable-step central difference method for structural dynamics analysis - Part 1. Theoretical aspects 22 (1980) 241- 258

1776. Ungarish, M., Modeling and simulation of separating mixture flows 91 (1991) 1175-1185

1777. Utku, M. and G.F. Carey, Boundary penalty techniques 30 (1982) 103- 118

1778. Utku, M. and G.F. Carey, Penalty resolution of the Babuška circle paradox 41 (1983) 11- 28

1779. Vahdani, B. and L.C. Wellford Jr., A singular perturbation-finite element procedure for the analysis of structures with a small bending rigidity 66 (1988) 221- 240

1780. Van der Giessen, E., FE thermomechanics and material sampling points 64 (1987) 447- 465

1781. Van der Lught, J. and J. Huetink, Thermal mechanically coupled finite element analysis in metal-forming processes 54 (1986) 145- 160

1782. Van der Werff, K., Dynamic analysis of planar mechanisms with rigid links 11 (1977) 1- 18

1783. Vandeven, H., On the eigenvalues of second-order spectral differentiation operators 80 (1990) 313- 318

1784. Vanka, S.P., A calculation procedure for three-dimensional steady recirculating flows using multigrid methods 55 (1986) 321- 338

1785. Vanka, S.P., Block-implicit multigrid calculation of two-dimensional recirculating flows 59 (1986) 29- 48

1786. Varma, A., C. Georgakis, N.R. Amundson and R. Aris, Computational methods for the tubular chemical reactor 8 (1976) 319- 330

1787. Varpasuo, P., Incremental analysis of axisymmetric shallow shells with varying strain-displacement equations 21 (1980) 153- 169

1788. Venkatesh, A. and K.P. Rao, Analysis of laminated shells with laminated stiffeners using rectangular shell finite elements 38 (1983) 255- 272

1789. Veselić, K., A global Jacobi method for a symmetric indefinite problem $Sx = \lambda Tx$ 38 (1983) 273- 290

1790. Vitiello, E. and K.S. Pister, Optimal earthquake-resistant design: a reliability-based, global cost approach 8 (1976) 277- 299

1791. Vold, H., Substructure analysis with linear constraints using the natural factor formulation 10 (1977) 151- 163

1792. Von Fuchs, G., J.R. Roy and E. Schrem, Hypermatrix solution of large sets of symmetric positive-definite linear equations

1793. Voskresensky, G.P., Numerical solution of the problem of unsteady supersonic flow around the front part of the wings with a detached shock wave

1794. Voskresensky, G.P., Computation of supersonic inviscid flow around wings with a detached shock wave

1795. Voyiadjis, G.Z. and M. Foroozesh, A finite strain, total Lagrangian finite element solution for metal extrusion problems

1796. Vu-Quoc, L. and J.A. Mora, A class of simple and efficient degenerated shell elements—Analysis of global spurious-mode filtering

1797. Vu-Quoc, L. and M. Olson, A computational procedure for interaction of high-speed vehicles on flexible structures without assuming known vehicle nominal motion

1798. Vu-Quoc, L., A perturbation method for dynamic analyses using under-integrated shell elements

1799. Wada, A. and H. Kubota, Static and dynamic analysis of collapse behaviour of steel structures

1800. Wait, R., Finite element methods for elliptic problems with singularities

1801. Wakefield, R.R. and F. Tin-Loi, Large scale nonholonomic elastoplastic analysis using a linear complementarity formulation

1802. Wang, J.H. and H.R. Chen, A substructure modal synthesis method with high computational efficiency

1803. Wang, K.C. and G.F. Carey, Adaptive grids for coupled viscous flow and transport

1804. Wang, S.-C., Convergence to unconfined flow of the three-dimensional transonic self-correcting wind tunnel

1805. Wang, W.-C. and J.-T. Chen, Stress analysis of finite interfacially cracked bimaterial plates by using the variational method

1806. Wang, X.-X., J. Qian and M.-K. Huang, A boundary integral equation formulation for large amplitude nonlinear vibration of thin elastic plates

1807. Warby, M.K. and J.R. Whiteman, Finite element model of viscoelastic membrane deformation

1808. Warby, M.K., J.R. Walton and J.R. Whiteman, A finite element model of crack growth in a finite body in the context of mode I linear viscoelastic fracture

1809. Warzee, G., Finite element analysis of transient heat conduction application of the weighted residual process

1810. Wasberg, C.E. and Ø. Andreassen, Pseudospectral methods with open boundary conditions for the study of atmospheric wave phenomena

1811. Wathen, A.J., An analysis of some element-by-element techniques

1812. Watkins, R.I. and A.J. Morris, A multicriteria objective function optimization scheme for laminated composites for use in multilevel structural optimization schemes

1 (1972) 197- 216

19 (1979) 257- 275

38 (1983) 45- 61

86 (1991) 337- 370

74 (1989) 117- 175

76 (1989) 207- 244

79 (1990) 129- 172

91 (1991) 1365-1378

13 (1978) 141- 150

84 (1990) 229- 242

79 (1990) 203- 217

82 (1990) 365- 383

28 (1981) 191- 205

73 (1989) 153- 171

86 (1991) 73- 86

68 (1988) 33- 54

97 (1992) 375- 397

3 (1974) 255- 268

80 (1990) 459- 465

74 (1989) 271- 287

60 (1987) 233- 251

1813. Watson, D.F. and G.M. Philip, Comment on "A nonlinear empirical prescription for simultaneously interpolating and smoothing contours over an irregular grid" by F. Duggan 50 (1985) 195- 198

1814. Watson, L. and W.H. Yang, Some numerical methods for limit analysis in continuum mechanics 15 (1978) 353- 364

1815. Watson, L.T. and R.T. Haftka, Modern homotopy methods in optimization 74 (1989) 289- 305

1816. Watts, A.M. and R.H. Frith, Efficient numerical solution of the dynamic equations of cables 25 (1981) 1- 9

1817. Weare, T.J., Finite element or finite difference methods for the two-dimensional shallow water equations? 7 (1976) 351- 357

1818. Webber, J.P.H. and I.B. Stewart, A theoretical solution for the buckling of sandwich panels with laminated face plates using a computer algebra system 92 (1991) 325- 341

1819. Weber, G. and L. Anand, Finite deformation constitutive equations and a time integrated procedure for isotropic hyperelastic-viscoplastic solids 79 (1990) 173- 202

1820. Weideman, J.A.C. and A. Cloot, Spectral methods and mappings for evolution equations on the infinite line 80 (1990) 467- 481

1821. Weissmann, S.L. and R.L. Taylor, Resultant fields for mixed plate bending elements 79 (1990) 321- 355

1822. Weissman, S.L. and R.L. Taylor, Four-node axisymmetric element based upon the Hellinger-Reissner functional 85 (1991) 39- 55

1823. Weissman, S.L. and R.L. Taylor, Mixed formulations for plate bending elements 94 (1992) 391- 427

1824. Weissman, S.L. and R.L. Taylor, A unified approach to mixed finite element methods: Application to in-plane problems 98 (1992) 127- 151

1825. Wellford, Jr., L.C. and J.T. Oden, A note on the accuracy and convergence of finite element approximations of the convection equation 5 (1975) 83- 96

1826. Wellford, Jr., L.C. and J.T. Oden, A theory of discontinuous finite element Galerkin approximations of shock waves in nonlinear elastic solids - Parts 1 and 2 8 (1976) 1- 36

1827. Wellford, Jr., L.C. and S.M. Hamdan, An analysis of an implicit finite element algorithm for geometrically nonlinear problems of structural dynamics. Parts 1 and 2 14 (1978) 377- 399

1828. Wellford Jr., L.C. and M.M. Hafez, A finite element first-order equation formulation for the small-disturbance transonic flow problem 22 (1980) 161- 186

1829. Wellford Jr., L.C. and B. Vahdani, A block iteration scheme for the solution of systems of equations resulting from linear and nonlinear finite element models 26 (1981) 33- 52

1830. Wendland, W.L., Analytical and numerical developments in 3D boundary element methods for elastic problems 91 (1991) 1229-1235

1831. White, R.E., Multisplittings and parallel iterative methods 64 (1987) 567- 577

1832. Wilde, P. and K. Szmidt, Numerical analysis of waves in a semi-infinite layer of fluid 36 (1983) 1- 21

1833. Wilhelmy, V., On the element stiffness factor formulation 11 (1977) 75- 95

1834. Winget, J.M. and T.J.R. Hughes, Solution algorithms for nonlinear transient heat conduction analysis employing element-by-element iterative strategies 52 (1985) 711- 815

1835. Withum, D., K.-P. Holz and U. Meissner, Finite element formulations for tidal wave analysis 17/18 (1979) 699- 716

1836. Witomski, P., The steady state heat equation with mixed nonlinear boundary conditions - an example in crystallography 35 (1982) 47- 66

1837. Wolberg, J.R. and J. Isenberg, A nonlinear least squares search algorithm 5 (1975) 1- 9

1838. Woodford, G., The equation of the curved edge for isoparametric cubic finite elements 16 (1978) 81- 89

1839. Wriggers, P., W. Wagner and C. Miehe, A quadratically convergent procedure for the calculation of stability points in finite element analysis 70 (1988) 329- 347

1840. Wrobel, L.C. and C.A. Brebbia, The dual reciprocity boundary element formulation for diffusion problems 65 (1987) 147- 164

1841. Wu, B.C. and N.J. Altiero, A new numerical method for the analysis of anisotropic thin-plate bending problems 25 (1981) 343- 353

1842. Wu, C.-C., Dual zero energy modes in mixed hybrid elements - definition, analysis and control 81 (1990) 39- 56

1843. Wu, S.T. and J.F. Wang, Numerical tests of a modified full implicit continuous Eulerian (FICE) scheme with projected normal characteristic boundary conditions for MHD flows 64 (1987) 267- 282

1844. Wunderlich, W., H. Cramer and H. Obrecht, Application of ring elements in the nonlinear analysis of shells of revolution under nonaxisymmetric loading 51 (1985) 259- 275

1845. Xanthis, L.S., M.J.M. Bernal and C. Atkinson, The treatment of singularities in the calculation of stress intensity factors using the boundary integral equation method 26 (1981) 285- 304

1846. Xicheng, W. and M. Guixu, A parallel iterative algorithm for structural optimization 96 (1992) 25- 32

1847. Xingjian, Y., A database design technique for finite element analysis 91 (1991) 1357-1364

1848. Yagawa, G. and Y. Takahashi, Some applications of the finite element method to nonlinear fracture mechanics 51 (1985) 51- 69

1849. Yamada, Y., Nonlinear matrices, their implications and applications in inelastic large deformation analysis 33 (1982) 417- 437

1850. Yamamoto, Y., Numerical simulation of hypersonic viscous flow for the design of H-II orbiting plane (HOPE) 89 (1991) 59- 72

1851. Yanenko, N.N., V.M. Kovenya, V.D. Lisejkin, V.M. Fomin and E.V. Vorozhtsov, On some methods for the numerical simulation of flows with complex structure 17/18 (1979) 659- 671

1852. Yanenko, N.N. and V.M. Fomin, Shock-wave propagation in elasto-plastic shells, porous and reacting media 52 (1985) 683- 688

1853. Yang, W.H., A method for updating Cholesky factorization of a band matrix 12 (1977) 281- 288

1854. Yang, W.H., On a class of optimization problems for framed structures 15 (1978) 85- 97

1855. Yang, W.H., A practical method for limit torsion problems 19 (1979) 151- 158
 1856. Yang, W.H., Minimization approach to limit solutions of plates 28 (1981) 265- 274
 1857. Yang, W.H., A variational principle and an algorithm for limit analysis of beams and plates 33 (1982) 575- 582
 1858. Yang, Y.-B. and L.-J. Leu, Constitutive laws and force recovery procedures in nonlinear analysis of trusses 92 (1991) 121- 131
 1859. Yang, Y., A digital simulation method for flutter analysis 56 (1986) 329- 337
 1860. Yates, D.F., T.B. Boffey and A.B. Templeman, A heuristic method for the design of minimum weight trusses using discrete member sizes 37 (1983) 37- 55
 1861. Yavin, Y. and A. Venter, Computation of impulse control laws for a nonlinear stochastic oscillator 28 (1981) 129- 143
 1862. Yavin, Y., Bang-bang strategies using interrupted observations for steering a random motion of a point 29 (1981) 351- 364
 1863. Yavin, Y., Strategies using an observer for steering a random motion of a point in a multitarget environment 39 (1983) 297- 310
 1864. Yavin, Y., A stochastic pursuit-evasion differential game on a torus: A numerical solution 60 (1987) 129- 137
 1865. Ye, Q. and D.J. Bell, The solution of the transonic equation by optimal control and finite element methods 31 (1982) 69- 78
 1866. Ye, Q. and D.J. Bell, A conjugate gradient algorithm applied to plane stress-strain problems 40 (1983) 127- 136
 1867. Ying, L.-A. and S.N. Atluri, A hybrid finite element method for Stokes flow: Part II - Stability and convergence studies 36 (1983) 39- 60
 1868. Yoshida, Y., T. Nomura and N. Masuda, A formulation and solution procedure for post-buckling of thin-walled structures 32 (1982) 285- 309
 1869. Young, L.C., A study of spatial approximations for simulating fluid displacements in petroleum reservoirs 47 (1984) 3- 46
 1870. Young, R.C. and C.D. Mote Jr., Solution of mixed boundary value problems with local error bound by the finite element method 2 (1973) 159- 183
 1871. Yu, D., Mathematical foundation of adaptive boundary element methods 91 (1991) 1237-1243
 1872. Yurtseven, H.O., C. Karaca and A. Ecer, A fast pseudo-time integration scheme for the solution of the steady transonic flow problem 34 (1982) 787- 800
 1873. Yuying, H., Z. Weifang and Q. Qinghua, Postbuckling analysis of plates on an elastic foundation by the boundary element method 100 (1992) 315- 323
 1874. Zabaras, N. and T. Pervez, Viscous damping approximation of laminated anisotropic composite plates using the finite element method 81 (1990) 291- 316
 1875. Zabaras, N., Y. Ruan and O. Richmond, Front tracking thermomechanical model for hypoelastic-viscoplastic behavior in a solidifying body 81 (1990) 333- 364
 1876. Zaghloul, N.A., A finite element method for flow separation 41 (1983) 159- 174
 1877. Zaghloul, N.A. and M.N. Anwar, Numerical integration of gradually varied flow in trapezoidal channel 88 (1991) 259- 272
 1878. Zang, T.A., Spectral methods for simulations of transition and turbulence 80 (1990) 209- 221
 1879. Zapryanov, Z. and C. Christov, Numerical study of the viscous flow in oscillatory spherical annuli 29 (1981) 247- 257

1880. Zedan, M.F. and C. Dalton, Higher-order axial singularity distributions for potential flow about bodies of revolution 21 (1980) 295- 314

1881. Zeitoun, D., Chemical and vibrational non-equilibrium flowfields 90 (1991) 687- 692

1882. Zhang, Q. and S. Mukherjee, Second-order design sensitivity analysis for linear elastic problems by the derivative boundary element method 86 (1991) 321- 335

1883. Zhang, W., S. Luo and P. Zhu, Computer simulation of vortex flows around a body of revolution at high angles of attack and low speed 96 (1992) 351- 360

1884. Zhang, Y. and R.S. Harichandran, Implicit subdomain integration for dynamic analysis of large-scale structural systems 81 (1990) 57- 70

1885. Zhang, Z., A note on the hybrid-mixed C^0 curved beam elements 95 (1992) 243- 252

1886. Zhiyun, X., The Hamiltonian system and the spline function 78 (1990) 125- 139

1887. Zhong, Q. and M.D. Olson, Finite element - Algebraic closure analysis of turbulent separated-reattaching flow around a rectangular body 85 (1991) 131- 150

1888. Zhong, W. and C. Qiu, Analysis of symmetric or partially symmetric structures 38 (1983) 1- 18

1889. Zhou, M. and G.I.N. Rozvany, The COC algorithm, Part II: Topological, geometrical and generalized shape optimization 89 (1991) 309- 336

1890. Zhou, X. and F. Zhu, Numerical computation of transonic flows over airfoils and cascades 37 (1983) 277- 288

1891. Zhu, J. and M.A. Leschziner, A local oscillation-damping algorithm for higher-order convection schemes 67 (1988) 335- 366

1892. Zhu, J. and W. Rodi, A low dispersion and bounded convection scheme 92 (1991) 87- 96

1893. Zhu, J., On the higher-order bounded discretization schemes for finite volume computations of incompressible flows 98 (1992) 345- 360

1894. Zhu, P., W. Shou and S. Luo, Nonlinear prediction of subsonic aerodynamic loads on wings and bodies at high angles of attack 26 (1981) 305- 319

1895. Zieliński, A.P., Trefftz method: Elastic and elastoplastic problems 69 (1988) 185- 204

1896. Zienkiewicz, O.C. and J.C. Heinrich, A unified treatment of steady-state shallow-water and two-dimensional Navier-Stokes equations - finite element penalty function approach 17/18 (1979) 673- 698

1897. Zienkiewicz, O.C., J.P. Villette, S. Toyoshima and S. Nakazawa, Iterative method for constrained and mixed approximation. An inexpensive improvement of F.E.M. performance 51 (1985) 3- 29

1898. Zienkiewicz, O.C., J. Szmelter and J. Peraire, Compressible and incompressible flow; An algorithm for all seasons 78 (1990) 105- 121

1899. Zienkiewicz, O.C. and J.Z. Zhu, The three R's of engineering analysis and error estimation and adaptivity 82 (1990) 95- 113

1900. Zietsman, J.F.W., The coupled finite element and boundary integral analysis of ocean wave loading: A versatile tool 44 (1984) 153- 176

1901. Zimmermann, H., Aeroviscoelasticity 90 (1991) 719- 735

1902. Zimmermann, T., Y. Dubois-Pèlerin and P. Bomme, Object-oriented finite element programming: I. Governing principles 98 (1992) 291- 303

1903. Zografos, A.I., W.A. Martin and J.E. Sunderland, Equations of properties as a function of temperature for seven fluids 61 (1987) 177- 187

Cumulative Co-author Index of Volumes 1–100

Abboud, N.N., see Pinsky, P.M.
Abd-el-Malek, M.B., see Boutros, Y.Z.
Abel, J.F., see Haber, R.B.
Abel, J.F., see Haber, R.B.
Abel, J.F., see Orbison, J.G.
Abouaf, M., see Marcelin, J.L.
Achenbach, J.D., see Kitahara, M.
Adamík, V., see Matejovič, P.
Adamík, V., see Matejovič, P.
Agah-Tehrani, A., see Suh, Y.S.
Agrawal, V., see Karamanlidis, D.
Ahmad, R., see Stein, E.
Ahmad, R., see Stein, E.
Akay, H.U., see Reddy, M.P.
Alba, R., see Costa, M.
Ali, A.H.A., see Gardner, L.R.T.
Aliabadi, S.K., see Tezduyar, T.E.
Altiero, N.J., see Wu, B.C.
Altiero, N., see Liu, N.
Alves, J.L.D., see Coutinho, A.L.G.A.
Alziary de Roquefort, T., see Farcy, A.
Amundson, N.R., see Varma, A.
Amundson, N.R., see Ballal, G.
Anand, L., see Weber, G.
Andersen, C.M., see Noor, A.K.
Andersen, C.M., see Noor, A.K.
Andersen, C.M., see Noor, A.K.
Andersen, C.M., see Noor, A.
Andersen, C.M., see Noor, A.K.
Anderson, D.V., see Gruber, R.
Andreassen, Ø., see Wasberg, C.E.
Andreuzzi, F., see Maier, G.
Angelopoulos, T., see Argyris, J.H.
Angelopoulos, T., see Argyris, J.H.
Angelopoulos, T., see Argyris, J.H.
Anwar, M.N., see Zaghoul, N.A.
Appert, K., see Succi, S.
Arbogast, T., see Douglas, Jr., J.

85 (1991) 311
65 (1987) 215
30 (1982) 263
30 (1982) 285
33 (1982) 557
56 (1986) 1
64 (1987) 523
70 (1988) 301
76 (1989) 135
93 (1991) 127
73 (1989) 133
4 (1974) 81
10 (1977) 175
100 (1992) 169
91 (1991) 1123
92 (1991) 231
98 (1992) 27
25 (1981) 343
84 (1990) 211
84 (1990) 129
80 (1990) 337
8 (1976) 319
75 (1989) 467
79 (1990) 173
6 (1975) 195
11 (1977) 255
20 (1979) 53
44 (1984) 67
63 (1987) 37
91 (1991) 1135
80 (1990) 459
17/18 (1979) 469
2 (1973) 203
3 (1974) 135
4 (1974) 219
88 (1991) 259
75 (1989) 543
87 (1991) 157

Aris, R., see Varma, A.
Armstrong, R.C., see Brown, R.A.
Arokiaswamy, A., see Holla, V.S.
Arora, J.S., see Haug, E.J.
Arora, J.S., see Hsieh, C.C.
Arora, J.S., see Belegundu, A.D.
Arora, J.S., see Hsieh, C.C.
Arora, J.S., see Lim, O.K.
Arora, J.S., see Tsay, J.J.
Arora, J.S., see Tsay, J.J.
Asaro, R.J., see Needleman, A.
Assamoi, L., see Tabarrock, B.
Assanelli, A.P., see Dvorkin, E.N.
Asthana, C.B., see Holla, V.S.
Atkinson, C., see Xanthis, L.S.
Atluri, S.N., see Bratianu, C.
Atluri, S.N., see Ying, L.-A.
Atluri, S.N., see Rubinstein, R.
Atluri, S.N., see Rubinstein, R.
Atluri, S.N., see Reed, K.W.
Atluri, S.N., see Reed, K.W.
Atluri, S.N., see Punch, E.F.
Atluri, S.N., see C.Y. Liao
Aubry, D., see Adjedj, G.
Auerbach, T., see Lemanska, M.
Auerbach, T., see Mennig, J.
Auweter-Kurtz, M., see Gogel, T.H.
Avello, A., see García de Jalón, J.
Avello, A., see Bayo, E.
Avraam, T., see Kounadis, A.N.
Aziz, T., see Jain, M.K.
Aziz, T., see Jain, M.K.

Babuška, I., see Arnold, D.N.
Babuška, I., see Oh, H.-S.
Bachrach, W.E., see Belytschko, T.
Baeumann, P.L., see Shephard, M.S.
Baeumann, P.L., see Shephard, M.S.

8 (1976) 319
58 (1986) 201
44 (1984) 1
15 (1978) 35
43 (1984) 195
48 (1985) 81
48 (1985) 171
57 (1986) 51
81 (1990) 183
81 (1990) 209
52 (1985) 689
61 (1987) 303
90 (1991) 829
44 (1984) 1
26 (1981) 285
36 (1983) 23
36 (1983) 39
36 (1983) 277
38 (1983) 63
39 (1983) 245
40 (1983) 171
47 (1984) 331
91 (1991) 1253
75 (1989) 153
5 (1975) 329
39 (1983) 199
89 (1991) 425
56 (1986) 309
92 (1991) 377
95 (1992) 317
26 (1981) 129
39 (1983) 83
45 (1984) 57
97 (1992) 211
54 (1986) 279
55 (1986) 161
82 (1990) 257

Baenziger, G., see Arora, J.S. 54 (1986) 303
 Baker, A.J., see Soliman, M.O. 28 (1981) 81
 Baker, G., see Khennane, A. 100 (1992) 207
 Baker, G., see Khennane, A. 100 (1992) 225
 Balestra, M., see Hughes, T.J.R. 59 (1986) 85
 Balmer, H., see Argyris, J.H. 17/18 (1979) 1
 Balmer, H., see Argyris, J.H. 22 (1980) 361
 Balmer, H., see Argyris, J. 65 (1987) 267
 Balmer, H., see Argyris, J. 71 (1988) 341
 Balmer, H., see Argyris, J. 85 (1991) 1
 Banan, M.R., see Farshad, M. 73 (1989) 111
 Banik, N.C., see Gupta, R.S. 67 (1988) 211
 Bard, J., see Cebeci, T. 2 (1973) 323
 Bartholomew, P., see Kelly, D.W. 12 (1977) 219
 Barturen, O.M., see Eterovic, J.E. 53 (1985) 91
 Barut, A., see Oral, S. 93 (1991) 415
 Basu, P.K., see Akhtar, M.N. 85 (1991) 219
 Bathe, K.-J., see Key, S.W. 17/18 (1979) 597
 Bathe, K.-J., see Brezzi, F. 82 (1990) 27
 Bathe, K.-J., see Eterovic, A.L. 93 (1991) 31
 Batterman, S.C., see Lehner, J.R. 2 (1973) 349
 Bauer, J., see Gutkowski, W. 51 (1985) 71
 Bauer, W., see Balasubramanian, B. 89 (1991) 337
 Bayliss, A., see Belytschko, T. 81 (1990) 71
 Bažant, Z.P., see Cedolin, L. 24 (1980) 305
 Bazhlekov, I.B., see Shopov, P.J. 91 (1991) 1157
 Beagles, A.E., see Hlaváček, I. 94 (1992) 93
 Beauchamp, C., see Arminjon, P. 19 (1979) 351
 Beauchamp, C., see Arminjon, P. 25 (1981) 65
 Becker, E.B., see Biffle, J.H. 6 (1975) 101
 Becker, E.B., see Gartling, D.K. 8 (1976) 51
 Becker, E.B., see Gartling, D.K. 8 (1976) 127
 Becker, E.B., see Hibbitt, H.D. 17/18 (1979) 203
 Becker, E.B., see Taylor, L.M. 41 (1983) 251
 Beckers, P., see Nyssen, C. 44 (1984) 131
 Bédard, C., see Lacombe, C. 68 (1988) 177
 Behr, M., see Tezduyar, T.E. 94 (1992) 339
 Behr, M., see Tezduyar, T.E. 94 (1992) 353
 Behr, M., see Tezduyar, T.E. 99 (1992) 27
 Bell, D.J., see Ye, Q. 31 (1982) 69
 Bell, D.J., see Ye, Q. 40 (1983) 127
 Bell, J.B., see Shubin, G.R. 47 (1984) 47
 Bellet, D., see Theodorou, G. 54 (1986) 111
 Belytschko, T., see Stolarski, H. 21 (1980) 217
 Belytschko, T., see Stolarski, H. 41 (1983) 279
 Belytschko, T., see Liu, W.K. 44 (1984) 177
 Belytschko, T., see Donea, J. 48 (1985) 25
 Belytschko, T., see Liu, W.K. 48 (1985) 245
 Belytschko, T., see Stolarski, H. 50 (1985) 121
 Belytschko, T., see Liu, W.K. 55 (1986) 259
 Belytschko, T., see Liu, W.K. 56 (1986) 61
 Belytschko, T., see Liu, W.K. 58 (1986) 227
 Belytschko, T., see Stolarski, H. 58 (1986) 249
 Belytschko, T., see Stolarski, H. 58 (1986) 265
 Belytschko, T., see Stolarski, H. 60 (1987) 195
 Belytschko, T., see Smolinski, P. 65 (1987) 115
 Belytschko, T., see Liu, W.K. 67 (1988) 27
 Belytschko, T., see Liu, W.K. 68 (1988) 259
 Belytschko, T., see Liu, W.K. 71 (1988) 241
 Belytschko, T., see Fish, J. 78 (1990) 181
 Belytschko, T., see Lu, Y.Y. 85 (1991) 21
 Belytschko, T., see Besterfield, G.H. 86 (1991) 297
 Belytschko, T., see Liu, W.K. 93 (1991) 189
 Benardout, D., see Kirsch, U. 22 (1980) 347
 Benaroya, H., see Rehak, M.L. 61 (1987) 61
 Bencze, D.P., see Chuy, W.J. 64 (1987) 21
 Bendito, E., see Navarrina, F. 75 (1989) 267
 Bendsøe, M.P., see Olhoff, N. 89 (1991) 259
 Benek, J.A., see Steger, J.L. 64 (1987) 301
 Benson, D.J., see Hallquist, J.O. 51 (1985) 107
 Benson, M.G., see Bellamy-Knight, P.G. 76 (1989) 171
 Benveniste, Y., see Aboudi, J. 6 (1975) 319
 Benzley, S.E., see Christiansen, H.N. 34 (1982) 1037
 Bergan, P.G., see Horrigmoe, G. 7 (1976) 201
 Bergan, P.G., see Horrigmoe, G. 16 (1978) 11
 Bergan, P.G., see Mollestad, E. 34 (1982) 881
 Bergan, P.G., see Felippa, C.A. 61 (1987) 129
 Bergeles, G., see Barba, A. 44 (1984) 49
 Beris, A.N., see Brown, R.A. 58 (1986) 201
 Beris, A.N., see Liu, B. 76 (1989) 179
 Beris, A.N., see Pilitsis, S. 98 (1992) 307
 Bern, A., see Chenot, J.L. 92 (1991) 245
 Bernal, M.J.M., see Xanthis, L.S. 26 (1981) 285
 Bernal, M.J.M., see Atkinson, C. 29 (1981) 35
 Bernardi, C., see Bègue, C. 75 (1989) 109
 Bert, C.W., see Elishakoff, I. 67 (1988) 297
 Bertin, J.J., see Cline, D.D. 75 (1989) 283
 Bertrand, F., see Soulaïmani, A. 62 (1987) 47
 Bertrand, F.H., see Hurez, P. 86 (1991) 87
 Bertrand-Corsini, C., see Chenot, J.L. 92 (1991) 245
 Beskos, D.E., see Kamdar, D.S. 19 (1979) 205
 Beskos, D.E., see Manolis, G.D. 21 (1980) 337

Beskos, D.E., see Manolis, G.D.

Beskos, D.E., see Karabalis, D.L.

Beskos, D.E., see Providakis, C.P.

Beskos, D.E., see Providakis, C.P.

Besterfield, G., see Liu, W.K.

Bhaskar, A., see Dumir, P.C.

Bhat, M.V., see Habashi, W.G.

Bhiladvala, R.B., see Chen, C.J.

Bichat, B., see Argyris, J.H.

Bichat, B., see Argyris, J.H.

Biggins, M.J., see Evans, D.J.

Bilger, R.W., see Tanner, R.I.

Billardon, R., see Benallal, A.

Billet, J., see Soubbaramayer

Bindeman, L.P., see Belytschko, T.

Bischoff, D., see Stein, E.

Bischoff, D., see Plank, L.

Biswas, R., see Benantar, M.

Boffey, T.B., see Yates, D.F.

Bomme, P., see Zimmermann, T.

Bomme, P., see Dubois-Pelerin, Y.

Boni, B., see Argyris, J.H.

Bontoux, P., see Chaouche, A.

Borkowski, A., see Attkočiūnas, J.

Bradshaw, P., see Cebeci, T.

Brand, G., see Stein, E.

Brauchli, H., see Haas, R.

Brebbia, C.A., see Wrobel, L.C.

Brebbia, C.A., see Takahashi, S.

Brekelmans, W.A.M., see Schreurs, P.J.G.

Brezzi, F., see Hughes, T.J.R.

Briley, W.R., see Kreskovsky, J.P.

Bristeau, M.-O., see Brezzi, F.

Brønlund, O.E., see Argyris, J.H.

Brown, D.B., see Langer, F.D.

Brown, R.C., see Eraslan, A.N.

Bucalem, M.L., see Bathe, K.-J.

Bui, T.D., see Li, Z.-C.

Burton, W.C., see Noor, A.K.

Caddemi, S., see Rencontre, L.J.

Camarero, R., see Pelletier, D.

Camberos, J., see Löhner, R.

Camin, R.A., see Noor, A.K.

Canuto, C., see Battarra, V.

Canuto, C., see Brezzi, F.

Cao, Z.-Y., see Li, Z.-C.

36 (1983) 291

56 (1986) 91

74 (1989) 231

92 (1991) 55

67 (1988) 27

67 (1988) 111

87 (1991) 253

75 (1989) 61

3 (1974) 135

4 (1974) 219

27 (1981) 63

6 (1975) 155

92 (1991) 141

24 (1980) 165

88 (1991) 311

52 (1985) 873

82 (1990) 223

82 (1990) 73

37 (1983) 37

98 (1992) 291

98 (1992) 361

35 (1982) 221

80 (1990) 237

28 (1981) 365

22 (1980) 213

52 (1985) 873

89 (1991) 543

65 (1987) 147

93 (1991) 151

58 (1986) 19

72 (1989) 105

11 (1977) 39

96 (1992) 117

5 (1975) 97

62 (1987) 255

64 (1987) 61

82 (1990) 5

97 (1992) 291

82 (1990) 341

96 (1992) 201

75 (1989) 343

95 (1992) 343

9 (1976) 317

48 (1985) 329

73 (1989) 317

36 (1983) 61

Capurso, M., see Cannarozzi, A.A.

Cardona, A., see Idelsohn, S.R.

Cardoso, J.E.B., see Tsay, J.J.

Carey, G.F., see Sepehrnoori, K.

Carey, G.F., see Utiku, M.

Carey, G.F., see Utiku, M.

Carey, G.F., see Axelsson, O.

Carey, G.F., see Barragy, E.

Carey, G.F., see Wang, K.C.

Carey, G.F., see Barragy, E.

Carini, A., see Maier, G.

Carnoy, E., see Hughes, T.J.R.

Carpenter, N., see Stolarski, H.

Carpenter, N., see Belytschko, T.

Casteleiro, M., see Navarrina, F.

Cebeci, T., see Mena, A.L.

Celia, M., see Hayes, L.

Celia, M.A., see Bouloutas, E.T.

Cervera, M., see Codina, R.

Chan, A.S.L., see Kunar, R.R.

Chan, M.Y.T., see Ng, S.S.

Chan, P.S., see Radok, R.

Chang, C.L., see Jiang, B.N.

Chang, H., see Liu, W.K.

Chang, H., see Liu, W.K.

Chang, K.C., see Cebeci, T.

Chang, T.Y., see Saleeb, A.F.

Chang, W.-J., see Jang, J.-Y.

Chapuis, O., see Leroy, Y.M.

Chen, C.-K., see Lee, S.-C.

Chen, C.-K., see Chen, H.-T.

Chen, E.-P., see Taylor, L.M.

Chen, H.R., see Wang, J.H.

Chen, J.-S., see Liu, W.K.

Chen, J.-T., see Wang, W.-C.

Chen, L., see Kamel, H.A.

Chen, S.-F., see Guo, Y.L.

Chen, T.-M., see Chen, H.-T.

Chen, Y.-S., see Kim, S.-W.

Chenot, J.L., see Marcellin, J.L.

Cheung, Y.K., see Carey, G.F.

Chiang, H.-Y., see Belytschko, T.

Chin, S.B., see Bradley, D.

Chiou, J.C., see Downer, J.D.

Chitnuyanondh, L., see Murray, D.W.

16 (1978) 47

49 (1985) 253

81 (1990) 209

27 (1981) 45

30 (1982) 103

41 (1983) 11

50 (1985) 217

70 (1988) 321

82 (1990) 365

93 (1991) 97

92 (1991) 193

39 (1983) 69

50 (1985) 121

51 (1985) 221

75 (1989) 267

35 (1982) 67

27 (1981) 265

92 (1991) 289

94 (1992) 239

7 (1976) 331

11 (1977) 137

54 (1986) 245

78 (1990) 297

58 (1986) 227

68 (1988) 259

22 (1980) 213

60 (1987) 95

68 (1988) 333

90 (1991) 969

50 (1985) 147

63 (1987) 83

55 (1986) 301

79 (1990) 203

68 (1988) 259

71 (1988) 241

93 (1991) 189

73 (1989) 153

89 (1991) 485

93 (1991) 319

63 (1987) 83

66 (1988) 45

56 (1986) 1

22 (1980) 121

96 (1992) 93

69 (1988) 133

96 (1992) 373

23 (1980) 35

Chow, C.L., see Sze, K.Y. 99 (1992) 1
 Chow, S.S., see Carey, G.F. 50 (1985) 107
 Christensen, J., see Stavitsky, D. 26 (1981) 265
 Christov, C., see Zapryanov, Z. 29 (1981) 247
 Chrysakis, A.C., see Theocaris, P.S. 24 (1980) 1
 Chung, D.-T., see Nemat-Nasser, S. 95 (1992) 205
 Chung, K.Y., see Kikichi, N. 57 (1986) 67
 Chung, K., see Suh, Y.S. 93 (1991) 127
 Ciarlet, P.G., see Blanchard, D. 37 (1983) 79
 Cimento, A.P., see Bathe, K.J. 22 (1980) 59
 Cinquini, C., see Lamblin, D. 13 (1978) 233
 Cinquini, C., see Cantù, E. 20 (1979) 257
 Cleghorn, W.L., see Rajpal, S.D.O. 62 (1987) 245
 Clifton, R.J., see Ranganath, S. 1 (1972) 173
 Clifton, R.J., see Güldenpfennig, J. 10 (1977) 141
 Cloot, A., see Weideman, J.A.C. 80 (1990) 467
 Cockburn, B., see Bamberger, A. 75 (1989) 11
 Cohen, G., see Chavent, G. 47 (1984) 93
 Cohn, M.Z., see Franchi, A. 21 (1980) 271
 Collier, G., see Sami, S. 60 (1987) 303
 Collins, D., see Behie, A. 42 (1984) 287
 Connolly, D., see Heinrich, J.C. 100 (1992) 31
 Cooper, W.A., see Gruber, R. 91 (1991) 1135
 Coppoletta, G., see Bernardi, C. 80 (1990) 229
 Coron, F., see Cardot, B. 87 (1991) 103
 Corradi, L., see Grierson, D.E. 17/18 (1979) 497
 Costa, M., see Alba, R. 91 (1991) 1203
 Côté, D., see Fortin, A. 88 (1991) 97
 Cramer, H., see Wunderlich, W. 51 (1985) 259
 Crescitelli, S., see Di Blasi, C. 75 (1989) 481
 Crescitelli, S., see Di Blasi, C. 90 (1991) 643
 Crivelli, A.L., see Storti, M. 66 (1988) 65
 Crivelli, L., see Farhat, C. 72 (1989) 153
 Cronin, K.D., see Lyell, M.J. 95 (1992) 71
 Cuadrado, J., see Bayo, E. 92 (1991) 377
 Curnier, A., see Hughes, T.J.R. 8 (1976) 249
 Curnier, A., see Alart, P. 92 (1991) 353
 Curr, R.M., see Caretto, L.S. 1 (1972) 39
 Cuvelier, C., see Schulkes, R.M.S.M. 92 (1991) 97
 Cyras, A., see Kačianauskas, R. 67 (1988) 131
 D'Asdia, P., see Andreaus, U. 42 (1984) 19
 d'Hennezel, F., see Bourquin, F. 97 (1992) 49
 Da Silva, V.D., see Argyris, J. 88 (1991) 135
 Da Silva, V.D., see Argyris, J. 98 (1992) 159
 Dafalias, Y.F., see Loret, B. 98 (1992) 399
 Dai, E., see Li, Z.-C. 31 (1982) 179
 Dalton, C., see Zedan, M.F. 21 (1980) 295
 Dalton, C., see Pinebrook, W.E. 39 (1983) 179
 Damjanic, F., see Owen, D.J.R. 41 (1983) 323
 Darlow, B.L., see Douglas, Jr., J. 47 (1984) 119
 Darlow, B.L., see Douglas, Jr., J. 47 (1984) 131
 Das, P.C., see Saha, S. 92 (1991) 343
 Das, S., see Mitra, A.K. 69 (1988) 205
 Dattaguru, B., see Naganarayana, B.P. 97 (1992) 355
 Dawe, D.J., see Peshkam, V. 77 (1989) 227
 Dawson, P.R., see Eggert, G.M. 70 (1988) 165
 De Koning, A.U., see Besseling, J.F. 17/18 (1979) 131
 Debit, N., see Bègue, C. 75 (1989) 109
 DeDonato, O., see Grierson, D.E. 17/18 (1979) 497
 Dehmel, W., see Rothert, H. 64 (1987) 429
 Delves, L.M., see Hendry, J.A. 35 (1982) 271
 Delves, L.M., see Kermode, M. 50 (1985) 205
 Demirdzic, I., see Barba, A. 44 (1984) 49
 Demkowicz, L., see Oden, J.T. 77 (1989) 113
 Demkowicz, L., see Rachowicz, W. 77 (1989) 181
 Demkowicz, L., see Oden, J.T. 82 (1990) 183
 Demkowicz, L., see Oden, J.T. 89 (1991) 11
 Denman, E.D., see Huan, S.-L. 41 (1983) 123
 DeRuntz, J.A., see Felippa, C.A. 44 (1984) 297
 Dervieux, A., see Billey, V. 75 (1989) 409
 Desai, R., see Haftka, R.T. 60 (1987) 289
 Désidéri, J.-A., see Guillard, H. 80 (1990) 305
 Destuynder, P., see Ciarlet, P.G. 17/18 (1979) 227
 Destuynder, P., see Davet, J.L. 59 (1986) 129
 Devasia, K.J., see Hussaini, M.Y. 13 (1978) 119
 Deville, M.O., see Francken, P. 80 (1990) 295
 Devloo, P., see Demkowicz, L. 53 (1985) 67
 Devloo, P., see Strouboulis, T. 59 (1986) 235
 Devloo, P., see Oden, J.T. 59 (1986) 327
 Dey, S.S., see Singh, J.P. 97 (1992) 1
 Dhatt, G., see Soulaimani, A. 62 (1987) 47
 Dhatt, G., see Soulaimani, A. 86 (1991) 265
 Diligenti, M., see Maier, G. 92 (1991) 193
 Dimaggio, F.L., see Rehak, M.L. 61 (1987) 61
 Dinh, G.V., see Atamian, C. 91 (1991) 1271
 Dinh, Q.V., see Glowinski, R. 40 (1983) 27
 Dinkler, D., see Kröplin, B.-H. 32 (1982) 365
 Dinkler, D., see Kröplin, B. 52 (1985) 885
 Dittrich, K., see Siekmann, J. 10 (1977) 291
 Doan, D.B., see Cardona, A. 89 (1991) 395

Doltsinis, J.S., see Balmer, H.	3 (1974) 87	Dunne, P.C., see Argyris, J.H.	16 (1978) 369
Doltsinis, J.S., see Balmer, H.	13 (1978) 363	Dunne, P.C., see Argyris, J.H.	17/18 (1979) 1
Doltsinis, J.S., see Argyris, J.H.	14 (1978) 259	Dunne, P.C., see Argyris, J.H.	24 (1980) 215
Doltsinis, J.S., see Argyris, J.H.	17/18 (1979) 1	Dupont, T.F., see Cowsar, L.C.	82 (1990) 205
Doltsinis, J.S., see Argyris, J.H.	17/18 (1979) 341	Duran, M., see Conca, C.	100 (1992) 295
Doltsinis, J.S., see Argyris, J.H.	20 (1979) 213	Durany, J., see Bermúdez, A.	68 (1988) 55
Doltsinis, J.S., see Argyris, J.H.	21 (1980) 91	Durany, J., see Bermúdez, A.	75 (1989) 457
Doltsinis, J.S., see Argyris, J.H.	25 (1981) 195	Dutra do Carmo, E.G., see	
Doltsinis, J.S., see Argyris, J.H.	32 (1982) 3	Galeão, A.C.	68 (1988) 83
Doltsinis, J.S., see Argyris, J.H.	45 (1984) 3	Dutra do Carmo, E.G., see Franca,	
Doltsinis, J.S., see Argyris, J.H.	46 (1984) 83	L.P.	74 (1989) 41
Doltsinis, J.S., see Argyris, J.H.	51 (1985) 289	Ebecken, N.F.F., see Coutinho,	
Doltsinis, I.S., see Argyris, J.	65 (1987) 267	A.L.G.A.	84 (1990) 129
Doltsinis, I.S., see Argyris, J.	71 (1988) 341	Ecer, A., see Yurtseven, H.O.	34 (1982) 787
Doltsinis, I.S., see Argyris, J.	73 (1989) 1	Eddingfield, D.L., see Sami, S.	60 (1987) 303
Doltsinis, I.S., see Argyris, J.	81 (1990) 257	Eisenberger, M., see Adin, M.A.	49 (1985) 319
Doltsinis, I.S., see Argyris, J.	85 (1991) 1	El-Awadi, I.A., see Boutros, Y.Z.	81 (1990) 173
Doltsinis, I.S., see Argyris, J.	88 (1991) 135	Elghobashi, S.E., see Megahed,	
Doltsinis, I.S., see Argyris, J.	89 (1991) 85	I.E.A.	26 (1981) 225
Doltsinis, I.S., see Argyris, J.	98 (1992) 159	Elishakoff, I., see Rehak, M.L.	61 (1987) 61
Donea, J., see Selmin, V.	52 (1985) 817	Elishakoff, I., see Givoli, D.	96 (1992) 45
Dost, S., see Tabarrok, B.	22 (1980) 279	Engelman, M.S., see Givler, R.C.	87 (1991) 175
Dow, M., see Rozvany, G.I.N.	31 (1982) 91	Engelmann, B.E., see Spilker, R.L.	56 (1986) 339
Dracopoulos, M.C., see Papadrakakis, M.	88 (1991) 275	Engelmann, B.E., see Belytschko,	
Drašković, Z., see Berković, M.	91 (1991) 1339	T.	70 (1988) 59
Dubois-Pelerin, Y., see Farhat, C.	85 (1991) 349	Engersbach, N.H., see Gruver,	
Dubois-Pelerin, Y., see Zimmermann, T.	98 (1992) 291	W.A.	11 (1977) 165
Dulikravich, G.S., see Kennon, S.R.	47 (1984) 357	Eriksson, L.-E., see Smith, R.E.	64 (1987) 285
Dulikravich, G.S., see Carcaillet, R.	57 (1986) 279	Ernst, L.J., see Besseling, J.F.	17/18 (1979) 131
Dulikravich, G.S., see Hayes, L.J.	59 (1986) 141	Eskin, G., see Bogomolni, A.	15 (1978) 149
Dulikravich, G.S., see Huang, C.Y.	59 (1986) 155	Esposito, V.J., see Porschung, T.A.	8 (1976) 357
Dulikravich, G.S., see Huang, C.Y.	63 (1987) 15	Ettles, C.M.M., see Holmes, A.G.	5 (1975) 309
Dulikravich, G.S., see Lee, S.	86 (1991) 245	Evans, D.J., see Lipitakis, E.A.	43 (1984) 1
Dunbar, W.S., see Nour-Omid, B.	88 (1991) 75	Evans, D.J., see Abdullah, A.R.	55 (1986) 221
Dunne, P.C., see Argyris, J.H.	2 (1973) 203	Évariste, C., see Charbonneau, G.	98 (1992) 23
Dunne, P.C., see Argyris, J.H.	4 (1974) 219	Ewing, R.E., see Espedal, M.S.	64 (1987) 113
Dunne, P.C., see Argyris, J.H.	10 (1977) 105	Ewing, R.E., see Bramble, J.H.	67 (1988) 149
Dunne, P.C., see Argyris, J.H.	10 (1977) 371	Fairweather, G., see Davis, M.	28 (1981) 179
Dunne, P.C., see Argyris, J.H.	11 (1977) 97	Fairweather, G., see Kondapalli,	
Dunne, P.C., see Argyris, J.H.	13 (1978) 245	P.S.	96 (1992) 255
Dunne, P.C., see Argyris, J.H.	14 (1978) 401	Falques, A., see Mercader, I.	91 (1991) 1245
Dunne, P.C., see Argyris, J.H.	15 (1978) 99	Falqué, A., see Iranzo, V.	98 (1992) 105
Dunne, P.C., see Argyris, J.H.	15 (1978) 389	Farshad, M., see Tabarrok, B.	70 (1988) 275
		Faust, G., see Argyris, J.H.	8 (1976) 215
		Faust, G., see Argyris, J.	91 (1991) 997
		Fayolle, S., see Bernardou, M.	74 (1989) 307

Felicelli, S., see Heinrich, J.C. 89 (1991) 435
 Felippa, C.A., see Bergan, P.G. 50 (1985) 25
 Felippa, C.A., see Militello, C. 93 (1991) 217
 Fenton, R.G., see Tabarrok, T. 63 (1987) 1
 Ferencz, R.M., see Hughes, T.J.R. 61 (1987) 215
 Fernández, J., see Bermudez, A. 54 (1986) 67
 Ferrari, J.O., see Cohen, J. 5 (1975) 53
 Fezoui, L., see Billeter, V. 75 (1989) 409
 Figueiras, J.A., see Owen, D.J.R. 41 (1983) 323
 Fischer, H., see Argyris, J.H. 51 (1985) 289
 Fish, J., see Belytschko, T. 70 (1988) 59
 Fish, J., see Belytschko, T. 76 (1989) 67
 Fish, J., see Belytschko, T. 81 (1990) 71
 Flagg, D.L., see Park, K.C. 42 (1984) 37
 Flagg, D.L., see Park, K.C. 46 (1984) 65
 Flagg, D.L., see Park, K.C. 48 (1985) 203
 Flaherty, J.E., see Adjerid, S. 55 (1986) 3
 Flaherty, J., see Benantar, M. 82 (1990) 73
 Flanagan, D.P., see Belytschko, T. 33 (1982) 669
 Fleury, C., see Braibant, V. 44 (1984) 247
 Fleury, C., see Braibant, V. 53 (1985) 119
 Fleury, C., see Shyy, Y.K. 71 (1988) 99
 Florian, P., see Gambolati, G. 94 (1992) 13
 Flück, M., see Descloux, J. 77 (1989) 215
 Flüh, H.H., see Argyris, J.H. 38 (1983) 347
 Fomin, V.M., see Yanenko, N.N. 17/18 (1979) 659
 Fomin, V.M., see Yanenko, N.N. 52 (1985) 683
 Fomin, W.M., see Kovaljov, O.B. 22 (1980) 259
 Foroozesh, M., see Voyiadjis, G.Z. 86 (1991) 337
 Forsyth, Jr., P., see Behie, A. 42 (1984) 287
 Fortin, M., see Fortin, A. 58 (1986) 337
 Fortin, M., see Soulaïmani, A. 62 (1987) 47
 Fortin, M., see Aboulaich, R. 75 (1989) 317
 Fortin, M., see Robichaud, M.P. 75 (1989) 359
 Fortin, M., see Soulaïmani, A. 86 (1991) 265
 Fox, D.D., see Simo, J.C. 72 (1989) 267
 Fox, D.D., see Simo, J.C. 73 (1989) 53
 Fox, D.D., see Simo, J.C. 79 (1990) 21
 Fox, D.D., see Simo, J.C. 81 (1990) 91
 Fox, D.D., see Simo, J.C. 95 (1992) 277
 Franca, L.P., see Hughes, T.J.R. 54 (1986) 223
 Franca, L.P., see Hughes, T.J.R. 59 (1986) 85
 Franca, L.P., see Hughes, T.J.R. 63 (1987) 97
 Franca, L.P., see Loula, A.F.D. 63 (1987) 115
 Franca, L.P., see Loula, A.F.D. 63 (1987) 133
 Franca, L.P., see Loula, A.F.D. 63 (1987) 281
 Franca, L.P., see Hughes, T.J.R. 65 (1987) 85
 Franca, L.P., see Hughes, T.J.R. 67 (1988) 223
 Franca, L.P., see Loula, A.F.D. 72 (1989) 201
 Franca, L.P., see Hughes, T.J.R. 73 (1989) 173
 Franca, L.P., see Brezzi, F. 96 (1992) 117
 Franchi, A., see De Donato, O. 2 (1973) 107
 Franchi, A., see Grierson, D.E. 17/18 (1979) 497
 Frémont, M., see Bossavit, A. 8 (1976) 153
 Frey, F., see Jaamei, S. 75 (1989) 251
 Frey, S.L., see Franca, L.P. 95 (1992) 253
 Frey, S.L., see Franca, L.P. 99 (1992) 209
 Friedman, M.B., see Luo, J.-C. 84 (1990) 193
 Frith, R.H., see Watts, A.M. 25 (1981) 1
 Friz, H., see Argyris, J. 73 (1989) 1
 Friz, H., see Argyris, J. 81 (1990) 257
 Friz, H., see Argyris, J. 89 (1991) 85
 Frosio, R., see Descloux, J. 77 (1989) 215
 Fu, G.Y., see Gruber, R. 91 (1991) 1135
 Fujikubo, M., see Ueda, Y. 51 (1985) 157
 Fujikubo, M., see Ueda, Y. 92 (1991) 33
 Fujikubo, M., see Ueda, Y. 94 (1992) 317
 Funaro, D., see Couland, O. 80 (1990) 451
 Gabovich, M.D., see Imshennik, V.S. 9 (1976) 1
 Galeão, A.C., see Dutra do Carmo, E.G. 88 (1991) 1
 Gallagher, R.H., see Bhashyam, G.R. 40 (1983) 309
 Gallagher, R.H., see Murthy, S.S. 54 (1986) 197
 Gallouët, T., see Eymard, R. 74 (1989) 83
 Gambolati, G., see Perdon, A.M. 56 (1986) 251
 Gandillon, J.-P., see Auerbach, T. 2 (1973) 133
 Gane, C.R., see Evans, D.J. 31 (1982) 281
 Ganjoo, D.K., see Tezduyar, T.E. 59 (1986) 49
 Ganoulis, J., see Latinopoulos, P. 20 (1979) 279
 Garcia de Jálón, J., see Bayo, E. 71 (1988) 183
 García de Jálón, J., see Bayo, E. 92 (1991) 377
 Gardner, G.A., see Gardner, L.R.T. 92 (1991) 231
 Gardner, G.A., see Ali, A.H.A. 100 (1992) 325
 Gardner, L.R.T., see Ali, A.H.A. 100 (1992) 325
 Garg, V.K., see Gupta, S.C. 27 (1981) 363
 Garg, V.K., see Gupta, S.C. 28 (1981) 27
 Garg, V.K., see Gupta, S.C. 28 (1981) 207
 Garon, A., see Pelletier, D. 75 (1989) 343
 Gartling, D.K., see Nickell, R.E. 17/18 (1979) 561
 Gartling, D.K., see Givler, R.C. 87 (1991) 175
 Gastine, J.L., see Ladeveze, P. 94 (1992) 303
 Gellert, M., see Laursen, M.E. 14 (1978) 125

Gellert, M., see Ginsburg, S.	23 (1980) 111	Gottlieb, D., see Don, W.-S.	80 (1990) 39
Gellert, M., see Harbord, R.	83 (1990) 201	Goudreau, G.L., see Hallquist, J.O.	51 (1985) 107
Gellin, S., see Batt, J.R.	53 (1985) 105	Gould, P.L., see Lin, J.S.	65 (1987) 127
Genalo, L.J., see Pierson, B.L.	10 (1977) 45	Gourdin Serveniere, A., see Adam, J.C.	22 (1980) 327
Genna, F., see Franchi, A.	60 (1987) 317	Gourgeon, H., see Herrera, I.	30 (1982) 225
Genna, F., see Franchi, A.	90 (1991) 921	Graf, W., see Chang, T.Y.	73 (1989) 259
Gentry, R.A., see Stein, L.R.	11 (1977) 57	Grandhi, R.V., see Haftka, R.T.	57 (1986) 91
Georgakis, C., see Varma, A.	8 (1976) 319	Greene, W.H., see Noor, A.K.	12 (1979) 289
George, J.H., see Djomehri, M.J.	71 (1988) 125	Greenwell, D.L., see Belytschko, T.	81 (1990) 229
Georges, M.K., see Shephard, M.S.	82 (1990) 257	Grenier, R.M., see Charman, C.M.	33 (1982) 759
Geradin, M., see Sander, G.	17/18 (1979) 315	Grice, W.A., see Golley, B.W.	76 (1989) 101
Geradin, M., see Cardona, A.	89 (1991) 395	Griffiths, D.F., see Duncan, D.B.	45 (1984) 147
Geradin, M., see Farhat, C.	97 (1992) 333	Griffiths, S.K., see Nilson, R.H.	36 (1983) 359
Géradin, M., see Cardona, A.	100 (1992) 1	Guerlement, G., see Cinquini, C.	11 (1977) 19
Gerrard, J.H., see Bellamy-Knight, P.G.	76 (1989) 171	Guerlement, G., see Lamblin, D.	13 (1978) 233
Gerrekens, P., see Hogge, M.	33 (1982) 609	Guerreiro, J.N.C., see Loula, A.F.D.	79 (1990) 87
Ghionis, P., see Papadakakis, M.	59 (1986) 11	Guerri, L., see Comincioli, V.	7 (1976) 153
Giacomini, S., see Maier, G.	19 (1979) 21	Gui, W., see Babuška, I.	55 (1986) 27
Giannakopoulos, A.E., see Tsamaphyros, G.	49 (1985) 331	Guirguis, G.H., see Chu, M.T.	74 (1989) 99
Giannessi, F., see Maier, G.	17/18 (1979) 469	Guixu, M., see Xicheng, W.	96 (1992) 25
Girault, V., see Bernardi, C.	80 (1990) 229	Guo, B.Q., see Babuška, I.	74 (1989) 1
Giuliani, S., see Donea, J.	30 (1982) 53	Guo, B.Q., see Babuška, I.	80 (1990) 319
Giuliani, S., see Donea, J.	33 (1982) 689	Guo, Y.H., see Padovan, J.	79 (1990) 113
Giuliani, S., see Donea, J.	45 (1984) 123	Gupta, S.C., see Garg, V.K.	29 (1981) 259
Gladwell, I., see Bellamy-Knight, P.G.	76 (1989) 171	Gupta, S.C., see Garg, V.K.	31 (1982) 61
Glotz, G., see Schönauer, W.	28 (1981) 327	Gupta, S.C., see Garg, V.K.	35 (1982) 35
Glowinski, R., see Ciarlet, P.G.	5 (1979) 277	Gustafsson, I., see Axelsson, O.	15 (1978) 241
Glowinski, R., see Bristeau, M.O.	17/18 (1979) 619	Gustafsson, I., see Axelsson, O.	20 (1979) 9
Glowinski, R., see Bristeau, M.O.	51 (1985) 363	Gvildys, J., see Liu, W.K.	58 (1986) 51
Glowinski, R., see Ballal, G.	75 (1989) 467	Haase, M., see Argyris, J.H.	16 (1978) 369
Glowinski, R., see Dean, E.J.	87 (1991) 117	Haase, M., see Argyris, J.H.	17/18 (1979) 1
Glowinski, R., see Atamian, C.	91 (1991) 1271	Haase, M., see Argyris, J.H.	22 (1980) 1
Gluck, J., see Kaley, I.	10 (1977) 63	Haase, M., see Argyris, J.H.	30 (1982) 335
Goble, B., see Fung, K.-Y.	66 (1988) 1	Haase, M., see Argyris, J.	61 (1987) 71
Goldberg, M., see Abarbanel, S.	8 (1976) 331	Haase, M., see Argyris, J.	86 (1991) 1
Goldman, Y., see Bamberger, A.	75 (1989) 11	Haase, M., see Argyris, J.	91 (1991) 997
Götz, T.M., see Gogel, T.H.	89 (1991) 425	Haber, R.B., see Phelan, D.G.	77 (1989) 31
González Nicieza, C., see Alvarez Vigil, A.E.	99 (1992) 147	Haber, R.B., see Tortorelli, D.A.	77 (1989) 61
Goodin, W.R., see Liu, C.Y.	9 (1976) 281	Hadjidimos, A., see Evans, D.J.	29 (1981) 97
Goodrich, W.D., see Ganjoo, D.K.	75 (1989) 515	Hafez, M.M., see Wellford Jr., L.C.	22 (1980) 161
Gosman, A.D., see Barba, A.	44 (1984) 49	Haftka, R.T., see Shin, Y.S.	70 (1988) 151
Gosman, A.D., see Ahmadi-Befrui, B.	79 (1990) 249	Haftka, R.T., see Watson, L.T.	74 (1989) 289

Haines, J.L., see Bailey, C.D.

Haldar, A., see Nee, K.-M.

Hälg, W., see Auerbach, T.

Hälg, W., see Mennig, J.

Halleux, J.P., see Donea, J.

Hallquist, J.O., see Goudreau, G.L.

Hallquist, J.O., see Hughes, T.J.R.

Hallquist, J.O., see Benson, D.J.

Hamdan, S.M., see Wellford Jr., L.C.

Hammoum, F., see Loret, B.

Han, G.-M., see Li, H.-B.

Hansen, J.S., see McNeill, N.J.

Hansen, J.S., see Heppler, G.R.

Hansen, J.S., see Heppler, G.R.

Haque, K.A., see Strouboulis, T.

Haque, K.A., see Strouboulis, T.

Hardy, O., see Demkowicz, L.

Hardy, O., see Demkowicz, L.

Harichandran, R.S., see Zhang, Y.

Haroutunian, V., see Givler, R.C.

Harris, P.J., see Amini, S.

Harrison, I.R., see Stetson, K.A.

Hartley, S.J., see Noor, A.K.

Hassan, O., see Morgan, K.

Haug, E.J., see Song, J.O.

Haug, E.J., see Kim, S.-S.

Haug, E.J., see Kim, S.-S.

Hayano, S., see Saito, Y.

Hayes, R.E., see Fauchon, D.

Hayhurst, D.R., see Lavender, D.A.

He, D.-W., see Liu, G.

He, J., see Atamian, C.

Hecht, F., see George, P.L.

Heinemann, R.F., see Ewing, R.E.

Heinemann, R.F., see Ewing, R.E.

Heinrich, J.C., see Zienkiewicz, O.C.

Heinrich, J.C., see Bergman, L.A.

Heinrich, J.C., see Argyris, J.

Heise, U., see Müller, C.H.

Hemami, H., see Langer, F.D.

Hensley, J.L., see Douglas, Jr., J.

Herrera, I., see Alduncin, G.

Hien, T.D., see Kleiber, M.

Hill, R.D., see Rozvany, G.I.N.

Hillmann, J., see Kröplin, B.

26 (1981) 1
71 (1988) 69
2 (1973) 133
39 (1983) 199
33 (1982) 689
33 (1982) 725
61 (1987) 215
78 (1990) 141
14 (1978) 377
98 (1992) 399
54 (1986) 161
25 (1981) 335
36 (1983) 155
54 (1986) 21
97 (1992) 399
100 (1992) 359
77 (1989) 79
88 (1991) 363
81 (1990) 57
87 (1991) 175
84 (1990) 59
16 (1978) 151
12 (1977) 289
87 (1991) 335
24 (1980) 359
71 (1988) 293
74 (1989) 251
49 (1985) 109
70 (1988) 139
56 (1986) 139
96 (1992) 109
91 (1991) 1271
92 (1991) 269
47 (1984) 161
64 (1987) 137
17/18 (1979) 673
27 (1981) 345
86 (1991) 1
21 (1980) 17
62 (1987) 255
87 (1991) 157
42 (1984) 257
37 (1983) 93
13 (1978) 151
52 (1985) 885

Hills, D.A., see Dewynne, J.N.

Hilpert, O., see Argyris, J.H.

Hindenlang, U., see Argyris, J.H.

Hindenlang, U., see Argyris, J.H.

Hirsh, R.S., see Cebeci, T.

Hirsh, R.S., see Ku, H.-C.

Hirsh, R.S., see Ku, H.C.

Hirt, C.W., see Stein, L.R.

Hitirogloiu, J.A., see Boudourides, M.A.

Hjelmstad, K.D., see Simo, J.C.

Ho, P.T.S., see Meek, J.L.

Hoa, S.V., see Fabrikant, V.

Hogge, M., see Sander, G.

Hohenemser, K.H., see Kung, W.-C.

Holand, I., see Bergan, P.G.

Holla, D.N., see Jain, P.C.

Holla, V.S., see Simha Prasad, D.S.

Hollkamp, J., see Elishakoff, I.

Holsapple, K.A., see Choe, K.Y.

Holz, K.-P., see Withum, D.

Honnor, M.E., see Perić, D.

Hsiao, K.M., see Chan, A.S.L.

Hsieh, S.S., see Lee, S.H.

Hsu, C.S., see Sun, J.Q.

Huang, A.-X., see Li, K.-T.

Huang, C.Y., see Tworzyllo, W.W.

Huang, M.-K., see Wang, X.-X.

Huang, Z.-X., see Pan, N.-Q.

Huerta, A., see Pijaudier-Cabot, G.

Huetink, J., see Van der Lugt, J.

Hughes, T.G., see Morgan, K.

Hughes, T.J.R., see Malkus, D.S.

Hughes, T.J.R., see Brooks, A.N.

Hughes, T.J.R., see Tessler, A.

Hughes, T.J.R., see Tessler, A.

Hughes, T.J.R., see Mizukami, A.

Hughes, T.J.R., see Winget, J.M.

Hughes, T.J.R., see Loula, A.F.D.

Hughes, T.J.R., see Loula, A.F.D.

Hughes, T.J.R., see Loula, A.F.D.

Hughes, T.J.R., see Franca, L.P.

Hughes, T.J.R., see Loula, A.F.D.

Hughes, T.J.R., see Shakib, F.

Hughes, T.J.R., see Hoff, C.

Hughes, T.J.R., see Hulbert, G.M.

Hughes, T.J.R., see Barbosa, H.J.C.

97 (1992) 321
20 (1979) 105
22 (1980) 361
35 (1982) 221
27 (1981) 13
75 (1989) 141
80 (1990) 381
11 (1977) 57
56 (1986) 83
42 (1984) 301
37 (1983) 25
29 (1981) 19
17/18 (1979) 315
12 (1977) 69
17/18 (1979) 443
15 (1978) 175
23 (1980) 59
62 (1987) 27
95 (1992) 141
17/18 (1979) 699
94 (1992) 35
52 (1985) 899
81 (1990) 151
83 (1990) 109
41 (1983) 175
97 (1992) 245
86 (1991) 73
37 (1983) 1
90 (1991) 905
54 (1986) 145
19 (1979) 117
15 (1978) 63
32 (1982) 199
39 (1983) 311
50 (1985) 71
50 (1985) 181
52 (1985) 711
63 (1987) 115
63 (1987) 133
63 (1987) 281
69 (1988) 89
72 (1989) 201
75 (1989) 415
76 (1989) 87
84 (1990) 327
85 (1991) 109

Hughes, T.J.R., see Harari, I. 87(1991) 59
 Hughes, T.J.R., see Johan, Z. 87(1991) 281
 Hughes, T.J.R., see Shakib, F. 87(1991) 35
 Hughes, T.J.R., see Shakib, F. 89(1991) 141
 Hughes, T.J.R., see Nomura, T. 95(1992) 115
 Hughes, T.J.R., see Franca, L.P. 95(1992) 253
 Hughes, T.J.R., see Simo, J.C. 95(1992) 277
 Hughes, T.J.R., see Harari, I. 97(1992) 77
 Hughes, T.J.R., see Harari, I. 97(1992) 103
 Hughes, T.J.R., see Harari, I. 97(1992) 157
 Hughes, T.J.R., see Barbosa, H.J.C. 97(1992) 193
 Hughes, T.J.R., see Harari, I. 98(1992) 411
 Hughes, T.J.R., see Johan, Z. 99(1992) 113
 Hulbert, G.M., see Hughes, T.J.R. 66(1988) 339
 Hulbert, G.M., see Hughes, T.J.R. 73(1989) 173
 Hulbert, G., see Hoff, C. 76(1989) 87
 Humphrey, J.A.C., see Han, T. 29(1981) 81
 Hung, H.-C., see Hsiao, K.-M. 73(1989) 209
 Huot, J.-P., see Molina, R.-C. 95(1992) 37
 Huseyin, K., see Jain, N.K. 40(1983) 277
 Hussaini, M.Y., see Degani, D. 25(1981) 11
 Hussaini, M.Y., see Drummond, J.P. 64(1987) 39
 Hutchinson, C.E., see Chon, Y.T. 9(1976) 139
 Iacono, R., see Gruber, R. 52(1985) 675
 Ibnou Zahir, M., see Planchard, J. 41(1983) 47
 Ibrani, S., see Dwyer, H.A. 75(1989) 333
 Idelberger, H., see Rothert, H. 51(1985) 139
 Idelsohn, S.R., see Storti, M. 66(1988) 65
 Idelsohn, S., see Storti, M. 93(1991) 13
 Idelsohn, S.R., see Baumann, C.E. 95(1992) 49
 Igra, O., see Elperin, T. 57(1986) 181
 Ijam, A.Z., see Taylor, C. 19(1979) 429
 Ioakimidis, N., see Theocaris, P.S. 24(1980) 1
 Ioakimidis, N.I., see Anastasselou, E.G. 65(1987) 165
 Isaacs, L.T., see Apelt, C.J. 12(1977) 383
 Isenberg, J., see Wolberg, J.R. 5(1975) 1
 Israeli, M., see Neishlos, H. 41(1983) 129
 Issa, R.I., see Ahmadi-Befrui, B. 79(1990) 249
 Iwanow, Z., see Gutkowski, W. 51(1985) 71
 Iyengar, S.R.K., see Jain, M.K. 38(1983) 137
 Iyengar, S.R.K., see Jain, M.K. 42(1984) 273
 Iyer, K.S.S., see Balasubramonian, S. 31(1982) 233
 Izadpanah, K., see Shyy, Y.K. 71(1988) 99
 Jackson, E., see She, Z.-S. 80(1990) 173
 Jacobi, W., see Rothert, H. 51(1985) 139
 Jacquotte, O.-P., see Oden, J.T. 43(1984) 231
 Jaffre, J., see Chavent, G. 47(1984) 93
 Jami, A., see Lenoir, M. 16(1978) 341
 Jang, J.-Y., see Hsiao, K.-M. 87(1991) 1
 Jasti, R., see Karamanlidis, D. 67(1988) 161
 Jasti, R.V., see Pinsky, P.M. 85(1991) 151
 Jensen, S., see French, D.A. 86(1991) 105
 Jetteur, P., see Jaamei, S. 75(1989) 251
 Ji, X., see Chen, Z.Q. 78(1990) 1
 Jiang, B.-N., see Carey, G.F. 62(1987) 145
 Jiang, B.-N., see Chang, C.L. 84(1990) 247
 Johan, Z., see Shakib, F. 75(1989) 415
 Johan, Z., see Shakib, F. 89(1991) 141
 Johnsen, T.L., see Brønlund, O.E. 3(1974) 153
 Johnsen, T.L., see Braun, K.A. 4(1974) 1
 Johnsen, T.L., see Frik, G. 6(1975) 65
 Johnsen, T.L., see Argyris, J.H. 7(1976) 261
 Johnsen, T.L., see Argyris, J.H. 10(1977) 105
 Johnsen, T.L., see Gekeler, E. 10(1977) 359
 Johnsen, T.L., see Argyris, J.H. 15(1978) 365
 Johnsen, T.L., see Argyris, J.H. 19(1979) 277
 Johnsen, T.L., see Argyris, J.H. 24(1980) 215
 Johnson, A., see Fried, I. 56(1986) 283
 Johnson, A.R., see Fried, I. 67(1988) 241
 Johnson, A.R., see Fried, I. 69(1988) 53
 Johnson, C., see Hansbo, P. 87(1991) 267
 Johnson, K.H., see Lewis, R.W. 44(1984) 17
 Johnsson, S.L., see Johan, Z. 99(1992) 113
 Joly, P., see Amara, M. 39(1983) 1
 Joly, P., see Eymard, R. 74(1989) 83
 Joly, P., see Bamberger, A. 75(1989) 11
 Joly, P., see Cohen, G. 80(1990) 397
 Jong, K.-Y., see Rencis, J.J. 73(1989) 295
 Joseph, K.T., see Patnaik, S.N. 55(1986) 239
 Jurina, L., see Maier, G. 17/18(1979) 469
 Just, M., see Lepik, Ü. 38(1983) 19
 Justesen, P., see Ekebjærg, L. 88(1991) 287
 Kabaila, A., see Carey, G.F. 30(1982) 151
 Kadivar, M.K., see Bernstein, B. 27(1981) 279
 Kamel, A., see Sguazzero, P. 80(1990) 165
 Kamel, H.A., see Sarigul, N. 34(1982) 939
 Kanarachos, A., see Antoniadis, I. 70(1988) 1
 Kanoknukulcahi, W., see Hughes, T.J.R. 8(1976) 249
 Kant, T., see Pandya, B.N. 66(1988) 173
 Kaper, H.G., see Lindeman, A.J. 4(1974) 97
 Karaca, C., see Yurtseven, H.O. 34(1982) 787

Karafiat, A., see Demkowicz, L. 42 (1984) 343
 Karami, G., see Farshad, M. 73 (1989) 111
 Karasalo, I., see Concus, P. 16 (1978) 327
 Karihaloo, B.L., see Kanagasundaram, S. 58 (1986) 121
 Karkanis, A., see Sparis, P.D. 98 (1992) 273
 Karniadakis, G.E., see Bègue, C. 75 (1989) 109
 Kashava Kumar, B.L., see Kane, J.H. 79 (1990) 219
 Kassab, A.J., see Hsieh, C.K. 86 (1991) 189
 Kato, M., see Ando, S. 43 (1984) 103
 Kato, M., see Ando, S. 49 (1985) 343
 Kavian, O., see Coulaud, O. 80 (1990) 451
 Kawamura, T., see Chyu, W.J. 64 (1987) 21
 Kechkar, N., see Silvester, D.J. 79 (1990) 71
 Kechter, G.E., see Achenbach, J.D. 70 (1988) 191
 Keer, L.M., see Mastrojannis, E.N. 39 (1983) 93
 Keller, H.B., see Cebeci, T. 27 (1981) 13
 Keller, J.B., see Givoli, D. 76 (1989) 41
 Kendall, R.P., see Douglas, Jr., J. 47 (1984) 119
 Kendall, R.P., see Douglas, Jr., J. 47 (1984) 131
 Kennedy, J.G., see Simo, J.C. 74 (1989) 177
 Kennedy, J.G., see Simo, J.C. 96 (1992) 133
 Kennedy, J.M., see Belytschko, T. 33 (1982) 669
 Kennedy, J.M., see Belytschko, T. 43 (1984) 251
 Kennedy, J.M., see Belytschko, T. 81 (1990) 229
 Kennon, S.R., see Carcaillet, R. 57 (1986) 279
 Kennon, S.R., see Hayes, L.J. 59 (1986) 141
 Kermanidis, T.B., see Mastrojannis, E.N. 35 (1982) 285
 Kern, M., see Bamberger, A. 75 (1989) 11
 Kesavan, S., see Ciarlet, P.G. 26 (1981) 145
 Key, S.W., see Biffle, J.H. 12 (1977) 323
 Khaliq, A.Q.M., see Twizell, E.H. 41 (1983) 91
 Khazin, L.G., see Imshennik, V.S. 9 (1976) 1
 Khulief, Y.A., see Changizi, K. 54 (1986) 93
 Kikuchi, N., see Ohtake, K. 24 (1980) 187
 Kikuchi, N., see Ohtake, K. 24 (1980) 317
 Kikuchi, N., see Okabe, M. 28 (1981) 1
 Kikuchi, N., see Oden, J.T. 31 (1982) 297
 Kikuchi, N., see Campos, L.T. 34 (1982) 821
 Kikuchi, N., see Okabe, M. 36 (1983) 167
 Kikuchi, N., see Okabe, M. 36 (1983) 257
 Kikuchi, N., see Okabe, M. 40 (1983) 219
 Kikuchi, N., see Diaz, A.R. 41 (1983) 29
 Kikuchi, N., see Cheng, J.-H. 49 (1985) 71
 Kikuchi, N., see Koh, B.C. 65 (1987) 1
 Kikuchi, N., see Bendsøe, M.P. 71 (1988) 197
 Kikuchi, N., see Lee, M.S. 72 (1989) 29
 Kikuchi, N., see Guedes, J.M. 83 (1990) 143
 Kikuchi, N., see Ghosh, S. 86 (1991) 127
 Kikuchi, N., see Suzuki, K. 93 (1991) 291
 Kindelan, M., see Sguazzero, P. 80 (1990) 165
 Krishnani, S.S., see Borja, R.I. 88 (1991) 341
 Kishore, N.N., see Saha, S. 92 (1991) 343
 Kivity, Y., see Neishlos, H. 41 (1983) 129
 Klarbring, A., see Edlund, U. 78 (1990) 19
 Klarbring, A., see Edlund, U. 96 (1992) 329
 Kleiber, M., see Argyris, J.H. 11 (1977) 215
 Kleiber, M., see Argyris, J.H. 14 (1978) 259
 Kleiber, M., see Argyris, J.H. 17/18 (1979) 1
 Kleiber, M., see Boni, B. 19 (1979) 1
 Kleiber, M., see Argyris, J.H. 22 (1980) 361
 Kleiber, M., see Borkowski, A. 22 (1980) 101
 Kleiber, M., see Argyris, J.H. 35 (1982) 221
 Kleiber, M., see Argyris, J.H. 43 (1984) 325
 Knight, Jr., N.F., see Noor, A.K. 23 (1980) 225
 Knudson, W.C., see Argyris, J.H. 17/18 (1979) 341
 Koch, M., see Kanarachos, A. 51 (1985) 79
 Koebbe, J.V., see Ewing, R.E. 64 (1987) 137
 Kohn, R.V., see Strang, G. 36 (1983) 207
 Kohn, R.V., see Goodman, J. 57 (1986) 107
 Kokkinos, C.A., see Papamichael, N. 28 (1981) 285
 Kokkinos, C.A., see Papamichael, N. 31 (1982) 189
 König, J.A., see Nguyen Dang Hung 8 (1976) 179
 König, J.A., see Atkočiūnas, J. 28 (1981) 365
 König, J.A., see Kleiber, M. 33 (1982) 487
 König, M., see Balmer, H. 3 (1974) 87
 König, M., see Nagy, D. 19 (1979) 447
 Korngold, E.V., see Shephard, M.S. 82 (1990) 257
 Koshy, K., see Batra, R.L. 19 (1979) 313
 Kourta, A., see Hanine, F. 89 (1991) 221
 Kovenya, V.M., see Yanenko, N.N. 17/18 (1979) 659
 Kreiss, H.-O., see Engquist, B. 17/18 (1979) 581
 Kreuzer, E., see Bestle, D. 59 (1986) 1
 Krieg, R.D., see Key, S.W. 17/18 (1979) 597
 Krieg, R.D., see Key, S.W. 33 (1982) 439
 Krishnamachari, S.V., see Hayes, L.J. 47 (1984) 187
 Krishnan, R., see Carey, G.F. 26 (1981) 173

Krishnan, R., see Carey, G.F. 30 (1982) 323
 Krishnan, R., see Carey, G.F. 35 (1982) 169
 Krishnan, R., see Carey, G.F. 42 (1984) 183
 Krishnan, R., see Carey, G.F. 48 (1985) 265
 Krishnan, R., see Carey, G.F. 60 (1987) 1
 Krzczkowski, A.J., see Hayhurst, D.R. 20 (1979) 151
 Kubota, H., see Wada, A. 91 (1991) 1365
 Kuhn, G., see Alujevic, A. 91 (1991) 1187
 Kuhnle, B.T., see Rozvany, G.I.N. 24 (1980) 287
 Kujawski, J., see Desai, C.S. 62 (1987) 155
 Kumar, A., see Gupta, R.S. 44 (1984) 91
 Kumar, A., see Gupta, R.S. 56 (1986) 127
 Kumar, D., see Gupta, R.S. 23 (1980) 101
 Kumar, D., see Gupta, R.S. 29 (1981) 233
 Kumar, D., see Gupta, R.S. 37 (1983) 139
 Kumar, R., see Jain, R.K. 72 (1989) 187
 Kuo, Y.H., see Lee, S.Y. 84 (1990) 163
 Kuszmaul, J.S., see Taylor, L.M. 55 (1986) 301
 Labib Iskandar, see Jain, P.C.
 Lakes, R.S., see Nakamura, S.
 Lal, J., see Singh, B.
 Lam, C.M., see Liu, C.Y.
 Lam, D., see Liu, W.K.
 Lam, D., see Liu, W.K.
 Lamain, L.G., see Donea, J.
 Lamb, A., see Hajela, P.
 Lamblin, D., see Cinquini, C.
 Langlois, W.E., see Golub, G.H.
 Larkin, N.A., see Kovaljov, O.B.
 Larroutou, B., see Benkhaldoun, F.
 Larsen, P.K., see Eidsheim, O.M.
 Laschet, G., see Idelsohn, S.
 Lau, S.L., see Carey, G.F.
 Lau, T.B., see Chan, A.S.L.
 Laudiero, F., see Cannarozzi, A.A.
 Launder, B.E., see Han, T.
 Launder, B.E., see Barba, A.
 Launder, B.E., see Huang, P.G.
 Laurent-Gengoux, P., see Dilintas, G.
 Laursen, M.E., see Gellert, M.
 Laval, H., see Donea, J.
 Laval, H., see Donea, J.
 Laval, H., see Donea, J.
 Law, E.S., see Liu, W.K.

Lawrence, M.A., see Besterfield, G.H. 86 (1991) 297
 Laxander, A., see Argyris, J. 94 (1992) 181
 Le Tallec, P., see De Roeck, Y.-H. 99 (1992) 187
 Leaf, G.K., see Lindeman, A.J. 4 (1974) 97
 Lebedev, V.I., see Tikhonov, V.S. 38 (1983) 169
 Leckie, F.A., see Ranaweera, M.P. 19 (1979) 367
 Lee, J.K., see Babuška, I. 11 (1977) 175
 Lee, J.K., see Babuška, I. 14 (1978) 1
 Lee, K.-J., see Langlois, W.E. 9 (1976) 219
 Lee, K.N., see Nemat-Nasser, S. 2 (1979) 33
 Lee, N.-S., see Bathe, K.-J. 82 (1990) 5
 Lee, S.-C., see Chen, C.-K. 59 (1986) 73
 Lee, S.R., see Borja, R.I. 78 (1990) 49
 Lemaitre, J., see Benallal, A. 92 (1991) 141
 LeMonds, J., see Needleman, A. 52 (1985) 689
 Léné, F., see Bernardou, M. 74 (1989) 307
 Leon, N., see Jirousek, J. 12 (1977) 77
 Lepora, P., see Gabutti, B. 6 (1975) 31
 Leroy, Y., see Ortiz, M. 61 (1987) 189
 Leschziner, M.A., see Huang, P.G. 48 (1985) 1
 Leschziner, M.A., see Zhu, J. 67 (1988) 335
 40 (1983) 159
 9 (1976) 281
 44 (1984) 177
 55 (1986) 259
 63 (1987) 183
 57 (1986) 25
 11 (1977) 19
 19 (1979) 391
 22 (1980) 259
 76 (1989) 119
 34 (1982) 989
 30 (1982) 133
 22 (1980) 121
 62 (1987) 127
 16 (1978) 47
 29 (1981) 81
 44 (1984) 49
 48 (1985) 1
 84 (1990) 111
 7 (1976) 285
 30 (1982) 53
 45 (1984) 123
 68 (1988) 189
 55 (1986) 259
 20 (1979) 195
 66 (1988) 257
 40 (1983) 159
 9 (1976) 281
 44 (1984) 177
 55 (1986) 259
 63 (1987) 183
 57 (1986) 25
 11 (1977) 19
 19 (1979) 391
 22 (1980) 259
 76 (1989) 119
 34 (1982) 989
 30 (1982) 133
 22 (1980) 121
 62 (1987) 127
 16 (1978) 47
 29 (1981) 81
 44 (1984) 49
 48 (1985) 1
 84 (1990) 111
 7 (1976) 285
 30 (1982) 53
 45 (1984) 123
 68 (1988) 189
 55 (1986) 259
 20 (1979) 195
 66 (1988) 257
 40 (1983) 159
 9 (1976) 281
 44 (1984) 177
 55 (1986) 259
 63 (1987) 183
 57 (1986) 25
 11 (1977) 19
 19 (1979) 391
 22 (1980) 259
 76 (1989) 119
 34 (1982) 989
 30 (1982) 133
 22 (1980) 121
 62 (1987) 127
 16 (1978) 47
 29 (1981) 81
 44 (1984) 49
 48 (1985) 1
 84 (1990) 111
 7 (1976) 285
 30 (1982) 53
 45 (1984) 123
 68 (1988) 189
 55 (1986) 259
 20 (1979) 195
 66 (1988) 257
 40 (1983) 159
 9 (1976) 281
 44 (1984) 177
 55 (1986) 259
 63 (1987) 183
 57 (1986) 25
 11 (1977) 19
 19 (1979) 391
 22 (1980) 259
 76 (1989) 119
 34 (1982) 989
 30 (1982) 133
 22 (1980) 121
 62 (1987) 127
 16 (1978) 47
 29 (1981) 81
 44 (1984) 49
 48 (1985) 1
 84 (1990) 111
 7 (1976) 285
 30 (1982) 53
 45 (1984) 123
 68 (1988) 189
 55 (1986) 259
 20 (1979) 195
 66 (1988) 257
 40 (1983) 159
 9 (1976) 281
 44 (1984) 177
 55 (1986) 259
 63 (1987) 183
 57 (1986) 25
 11 (1977) 19
 19 (1979) 391
 22 (1980) 259
 76 (1989) 119
 34 (1982) 989
 30 (1982) 133
 22 (1980) 121
 62 (1987) 127
 16 (1978) 47
 29 (1981) 81
 44 (1984) 49
 48 (1985) 1
 84 (1990) 111
 7 (1976) 285
 30 (1982) 53
 45 (1984) 123
 68 (1988) 189
 55 (1986) 259
 20 (1979) 195
 66 (1988) 257
 40 (1983) 159
 9 (1976) 281
 44 (1984) 177
 55 (1986) 259
 63 (1987) 183
 57 (1986) 25
 11 (1977) 19
 19 (1979) 391
 22 (1980) 259
 76 (1989) 119
 34 (1982) 989
 30 (1982) 133
 22 (1980) 121
 62 (1987) 127
 16 (1978) 47
 29 (1981) 81
 44 (1984) 49
 48 (1985) 1
 84 (1990) 111
 7 (1976) 285
 30 (1982) 53
 45 (1984) 123
 68 (1988) 189
 55 (1986) 259
 20 (1979) 195
 66 (1988) 257
 40 (1983) 159
 9 (1976) 281
 44 (1984) 177
 55 (1986) 259
 63 (1987) 183
 57 (1986) 25
 11 (1977) 19
 19 (1979) 391
 22 (1980) 259
 76 (1989) 119
 34 (1982) 989
 30 (1982) 133
 22 (1980) 121
 62 (1987) 127
 16 (1978) 47
 29 (1981) 81
 44 (1984) 49
 48 (1985) 1
 84 (1990) 111
 7 (1976) 285
 30 (1982) 53
 45 (1984) 123
 68 (1988) 189
 55 (1986) 259
 20 (1979) 195
 66 (1988) 257
 40 (1983) 159
 9 (1976) 281
 44 (1984) 177
 55 (1986) 259
 63 (1987) 183
 57 (1986) 25
 11 (1977) 19
 19 (1979) 391
 22 (1980) 259
 76 (1989) 119
 34 (1982) 989
 30 (1982) 133
 22 (1980) 121
 62 (1987) 127
 16 (1978) 47
 29 (1981) 81
 44 (1984) 49
 48 (1985) 1
 84 (1990) 111
 7 (1976) 285
 30 (1982) 53
 45 (1984) 123
 68 (1988) 189
 55 (1986) 259
 20 (1979) 195
 66 (1988) 257
 40 (1983) 159
 9 (1976) 281
 44 (1984) 177
 55 (1986) 259
 63 (1987) 183
 57 (1986) 25
 11 (1977) 19
 19 (1979) 391
 22 (1980) 259
 76 (1989) 119
 34 (1982) 989
 30 (1982) 133
 22 (1980) 121
 62 (1987) 127
 16 (1978) 47
 29 (1981) 81
 44 (1984) 49
 48 (1985) 1
 84 (1990) 111
 7 (1976) 285
 30 (1982) 53
 45 (1984) 123
 68 (1988) 189
 55 (1986) 259
 20 (1979) 195
 66 (1988) 257
 40 (1983) 159
 9 (1976) 281
 44 (1984) 177
 55 (1986) 259
 63 (1987) 183
 57 (1986) 25
 11 (1977) 19
 19 (1979) 391
 22 (1980) 259
 76 (1989) 119
 34 (1982) 989
 30 (1982) 133
 22 (1980) 121
 62 (1987) 127
 16 (1978) 47
 29 (1981) 81
 44 (1984) 49
 48 (1985) 1
 84 (1990) 111
 7 (1976) 285
 30 (1982) 53
 45 (1984) 123
 68 (1988) 189
 55 (1986) 259
 20 (1979) 195
 66 (1988) 257
 40 (1983) 159
 9 (1976) 281
 44 (1984) 177
 55 (1986) 259
 63 (1987) 183
 57 (1986) 25
 11 (1977) 19
 19 (1979) 391
 22 (1980) 259
 76 (1989) 119
 34 (1982) 989
 30 (1982) 133
 22 (1980) 121
 62 (1987) 127
 16 (1978) 47
 29 (1981) 81
 44 (1984) 49
 48 (1985) 1
 84 (1990) 111
 7 (1976) 285
 30 (1982) 53
 45 (1984) 123
 68 (1988) 189
 55 (1986) 259
 20 (1979) 195
 66 (1988) 257
 40 (1983) 159
 9 (1976) 281
 44 (1984) 177
 55 (1986) 259
 63 (1987) 183
 57 (1986) 25
 11 (1977) 19
 19 (1979) 391
 22 (1980) 259
 76 (1989) 119
 34 (1982) 989
 30 (1982) 133
 22 (1980) 121
 62 (1987) 127
 16 (1978) 47
 29 (1981) 81
 44 (1984) 49
 48 (1985) 1
 84 (1990) 111
 7 (1976) 285
 30 (1982) 53
 45 (1984) 123
 68 (1988) 189
 55 (1986) 259
 20 (1979) 195
 66 (1988) 257
 40 (1983) 159
 9 (1976) 281
 44 (1984) 177
 55 (1986) 259
 63 (1987) 183
 57 (1986) 25
 11 (1977) 19
 19 (1979) 391
 22 (1980) 259
 76 (1989) 119
 34 (1982) 989
 30 (1982) 133
 22 (1980) 121
 62 (1987) 127
 16 (1978) 47
 29 (1981) 81
 44 (1984) 49
 48 (1985) 1
 84 (1990) 111
 7 (1976) 285
 30 (1982) 53
 45 (1984) 123
 68 (1988) 189
 55 (1986) 259
 20 (1979) 195
 66 (1988) 257
 40 (1983) 159
 9 (1976) 281
 44 (1984) 177
 55 (1986) 259
 63 (1987) 183
 57 (1986) 25
 11 (1977) 19
 19 (1979) 391
 22 (1980) 259
 76 (1989) 119
 34 (1982) 989
 30 (1982) 133
 22 (1980) 121
 62 (1987) 127
 16 (1978) 47
 29 (1981) 81
 44 (1984) 49
 48 (1985) 1
 84 (1990) 111
 7 (1976) 285
 30 (1982) 53
 45 (1984) 123
 68 (1988) 189
 55 (1986) 259
 20 (1979) 195
 66 (1988) 257
 40 (1983) 159
 9 (1976) 281
 44 (1984) 177
 55 (1986) 259
 63 (1987) 183
 57 (1986) 25
 11 (1977) 19
 19 (1979) 391
 22 (1980) 259
 76 (1989) 119
 34 (1982) 989
 30 (1982) 133
 22 (1980) 121
 62 (1987) 127
 16 (1978) 47
 29 (1981) 81
 44 (1984) 49
 48 (1985) 1
 84 (1990) 111
 7 (1976) 285
 30 (1982) 53
 45 (1984) 123
 68 (1988) 189
 55 (1986) 259
 20 (1979) 195
 66 (1988) 257
 40 (1983) 159
 9 (1976) 281
 44 (1984) 177
 55 (1986) 259
 63 (1987) 183
 57 (1986) 25
 11 (1977) 19
 19 (1979) 391
 22 (1980) 259
 76 (1989) 119
 34 (1982) 989
 30 (1982) 133
 22 (1980) 121
 62 (1987) 127
 16 (1978) 47
 29 (1981) 81
 44 (1984) 49
 48 (1985) 1
 84 (1990) 111
 7 (1976) 285
 30 (1982) 53
 45 (1984) 123
 68 (1988) 189
 55 (1986) 259
 20 (1979) 195
 66 (1988) 257
 40 (1983) 159
 9 (1976) 281
 44 (1984) 177
 55 (1986) 259
 63 (1987) 183
 57 (1986) 25
 11 (1977) 19
 19 (1979) 391
 22 (1980) 259
 76 (1989) 119
 34 (1982) 989
 30 (1982) 133
 22 (1980) 121
 62 (1987) 127
 16 (1978) 47
 29 (1981) 81
 44 (1984) 49
 48 (1985) 1
 84 (1990) 111
 7 (1976) 285
 30 (1982) 53
 45 (1984) 123
 68 (1988) 189
 55 (1986) 259
 20 (1979) 195
 66 (1988) 257
 40 (1983) 159
 9 (1976) 281
 44 (1984) 177
 55 (1986) 259
 63 (1987) 183
 57 (1986) 25
 11 (1977) 19
 19 (1979) 391
 22 (1980) 259
 76 (1989) 119
 34 (1982) 989
 30 (1982) 133
 22 (1980) 121
 62 (1987) 127
 16 (1978) 47
 29 (1981) 81
 44 (1984) 49
 48 (1985) 1
 84 (1990) 111
 7 (1976) 285
 30 (1982) 53
 45 (1984) 123
 68 (1988) 189
 55 (1986) 259
 20 (1979) 195
 66 (1988) 257
 40 (1983) 159
 9 (1976) 281
 44 (1984) 177
 55 (1986) 259
 63 (1987) 183
 57 (1986) 25
 11 (1977) 19
 19 (1979) 391
 22 (1980) 259
 76 (1989) 119
 34 (1982) 989
 30 (1982) 133
 22 (1980) 121
 62 (1987) 127
 16 (1978) 47
 29 (1981) 81
 44 (1984) 49
 48 (1985) 1
 84 (1990) 111
 7 (1976) 285
 30 (1982) 53
 45 (1984) 123
 68 (1988) 189
 55 (1986) 259
 20 (1979) 195
 66 (1988) 257
 40 (1983) 159
 9 (1976) 281
 44 (1984) 177
 55 (1986) 259
 63 (1987) 183
 57 (1986) 25
 11 (1977) 19
 19 (1979) 391
 22 (1980) 259
 76 (1989) 119
 34 (1982) 989
 30 (1982) 133
 22 (1980) 121
 62 (1987) 127
 16 (1978) 47
 29 (1981) 81
 44 (1984) 49
 48 (1985) 1
 84 (1990) 111
 7 (1976) 285
 30 (1982) 53
 45 (1984) 123
 68 (1988) 189
 55 (1986) 259
 20 (1979) 195
 66 (1988) 257
 40 (1983) 159
 9 (1976) 281
 44 (1984) 177
 55 (1986) 259
 63 (1987) 183
 57 (1986) 25
 11 (1977) 19
 19 (1979) 391
 22 (1980) 259
 76 (1989) 119
 34 (1982) 989
 30 (1982) 133
 22 (1980) 121
 62 (1987) 127
 16 (1978) 47
 29 (1981) 81
 44 (1984) 49
 48 (1985) 1
 84 (1990) 111
 7 (1976) 285
 30 (1982) 53
 45 (1984) 123
 68 (1988) 189
 55 (1986) 259
 20 (1979) 195
 66 (1988) 257
 40 (1983) 159
 9 (1976) 281
 44 (1984) 177
 55 (1986) 259
 63 (1987) 183
 57 (1986) 25
 11 (1977) 19
 19 (1979) 391
 22 (1980) 259
 76 (1989) 119
 34 (1982) 989
 30 (1982) 133
 22 (1980) 121
 62 (1987) 127
 16 (1978) 47
 29 (1981) 81
 44 (1984) 49
 48 (1985) 1
 84 (1990) 111
 7 (1976) 285
 30 (1982) 53
 45 (1984) 123
 68 (1988) 189
 55 (1986) 259
 20 (1979) 195
 66 (1988) 257
 40 (1983) 159
 9 (1976) 281
 44 (1984) 177
 55 (1986) 259
 63 (1987) 183
 57 (1986) 25
 11 (1977) 19
 19 (1979) 391
 22 (1980) 259
 76 (1989) 119
 34 (1982) 989
 30 (1982) 133
 22 (1980) 121
 62 (1987) 127
 16 (1978) 47
 29 (1981) 81
 44 (1984) 49
 48 (1985) 1
 84 (1990) 111
 7 (1976) 285
 30 (1982) 53
 45 (1984) 123
 68 (1988) 189
 55 (1986) 259
 20 (1979) 195
 66 (1988) 257
 40 (1983) 159
 9 (1976) 281
 44 (1984) 177
 55 (1986) 259
 63 (1987) 183
 57 (1986) 25
 11 (1977) 19
 19 (1979) 391
 22 (1980) 259
 76 (1989) 119
 34 (1982) 989
 30 (1982) 133
 22 (1980) 121
 62 (1987) 127
 16 (1978) 47
 29 (1981) 81
 44 (1984) 49
 48 (1985) 1
 84 (1990) 111
 7 (1976) 285
 30 (1982) 53
 45 (1984) 123
 68 (1988) 189
 55 (1986) 259
 20 (1979) 195
 66 (1988) 257
 40 (1983) 159
 9 (1976) 281
 44 (1984) 177
 55 (1986) 259
 63 (1987) 183
 57 (1986) 25
 11 (1977) 19
 19 (1979) 391
 22 (1980) 259
 76 (1989) 119
 34 (1982) 989
 30 (1982) 133
 22 (1980) 121
 62 (1987) 127
 16 (1978) 47
 29 (1981) 81
 44 (1984) 49
 48 (1985) 1
 84 (1990) 111
 7 (1976) 285
 30 (1982) 53
 45 (1984) 123
 68 (1988) 189
 55 (1986) 259
 20 (1979) 195
 66 (1988) 257
 40 (1983) 159
 9 (1976) 281
 44 (1984) 177
 55 (1986) 259
 63 (1987) 183
 57 (1986) 25
 11 (1977) 19
 19 (1979) 391
 22 (1980) 259
 76 (1989) 119
 34 (1982) 989
 30 (1982) 133
 22 (1980) 121
 62 (1987) 127
 16 (1978) 47
 29 (1981) 81
 44 (1984) 49
 48 (1985) 1
 84 (1990) 111
 7 (1976) 285
 30 (1982) 53
 45 (1984) 123
 68 (1988) 189
 55 (1986) 259
 20 (1979) 195
 66 (1988) 257
 40 (1983) 159
 9 (1976) 281
 44 (1984) 177
 55 (1986) 259
 63 (1987) 183
 57 (1986) 25
 11 (1977) 19
 19 (1979) 391
 22 (1980) 259
 76 (1989) 119
 34 (1982) 989
 30 (1982) 133
 22 (1980) 121
 62 (1987) 127
 16 (1978) 47

Liu, W.K., see Belytschko, T.	29 (1981) 313	Makris, P., see Kanarachos, A.	51 (1985) 79
Liu, W.K., see Hughes, T.J.R.	29 (1981) 329	Malejannakis, G.A., see Argyris,	10 (1977) 371
Liu, W.K., see Belytschko, T.	43 (1984) 251	J.H.	
Liu, W.K., see Belytschko, T.	44 (1984) 269	Malejannakis, G.A., see Argyris,	11 (1977) 97
Liu, W.K., see Belytschko, T.	49 (1985) 281	J.H.	
Liu, W.K., see Belytschko, T.	51 (1985) 221	Malejannakis, G.A., see Argyris,	15 (1978) 99
Liu, W.K., see Bachrach, W.E.	55 (1986) 43	J.H.	
Liu, W.K., see Belytschko, T.	62 (1987) 275	Malejannakis, G.A., see Argyris,	17/18 (1979) 1
Liu, W.K., see Smolinski, P.	65 (1987) 115	J.H.	
Liu, W.K., see Huerta, A.	69 (1988) 277	Malejannakis, G.A., see Argyris,	20 (1979) 105
Liu, W.K., see Lu, Y.Y.	85 (1991) 21	J.H.	
Liu, W.K., see Besterfield, G.H.	86 (1991) 297	Malkus, D.S., see Bernstein, B.	27 (1981) 279
Lochner, N., see Argyris, J.H.	1 (1972) 317	Malkus, D.S., see Cornwell, R.E.	97 (1992) 149
Loganathan, S., see Meek, J.L.	72 (1989) 57	Mallet, M., see Hughes, T.J.R.	54 (1986) 223
Lokutsievskii, O.V., see Imshennik, V.S.	9 (1976) 1	Mallet, M., see Hughes, T.J.R.	54 (1986) 341
Lorenz, J., see Griffiths, D.F.	14 (1978) 39	Mallet, M., see Hughes, T.J.R.	58 (1986) 305
Loret, B., see Prevost, J.H.	83 (1990) 275	Mallet, M., see Hughes, T.J.R.	58 (1986) 329
Losito, V., see Napolitano, L.G.	13 (1978) 335	Mallet, M., see Hughes, T.J.R.	63 (1987) 97
Lotfi, A., see Le Tallec, P.	68 (1988) 67	Mallet, M., see Brezzi, F.	96 (1992) 117
Lottati, I., see Elishakoff, I.	66 (1988) 241	Mallett, R.L., see Lee, E.H.	5 (1975) 69
Loula, A.F.D., see Murad, M.A.	95 (1992) 359	Mallett, R.L., see Lee, E.H.	10 (1977) 339
Lu, S.C.-Y., see Tortorelli, D.A.	77 (1989) 61	Mallis, J., see Kounadis, A.N.	95 (1992) 317
Lu, Y.Y., see Belytschko, T.	95 (1992) 87	Malone, J.B., see Sotomayer, W.A.	64 (1987) 237
Lu, Y.Y., see Belytschko, T.	95 (1992) 383	Mang, H.A., see Li, H.-B.	54 (1986) 161
Luco, J.E., see Mita, A.	63 (1987) 233	Mani, A., see Liu, W.K.	56 (1986) 61
Lui Xiao-an, see Cheng Chang-jun	92 (1991) 57	Mansour El-Saadany, H., see Boutros, Y.Z.	81 (1990) 173
Lui Xiao-an, see Cheng Chang-jun	92 (1991) 173	Mantegazza, P., see Borri, M.	12 (1977) 19
Luo, J.-W. see Cheng, W.-Q.	71 (1988) 31	Marin, P., see Ladeveze, P.	94 (1992) 303
Luo, S., see Zhu, P.	26 (1981) 305	Marini, L.D., see Brezzi, F.	75 (1989) 493
Luo, S.J., see Shen, K.-Y.	49 (1985) 149	Marraffa, L., see Dulikravich, G.S.	79 (1990) 309
Luo, S., see Zhang, W.	96 (1992) 351	Marrocco, A., see Glowinski, R.	3 (1974) 55
Lutoborski, A., see Destuynder, P.	35 (1982) 127	Marrocco, A., see Glowinski, R.	12 (1977) 33
Ma, D.C., see Liu, W.K.	31 (1982) 129	Marshall, R.S., see Heinrich, J.C.	25 (1981) 49
Macagno, E., see Stavitsky, D.	26 (1981) 265	Martin, J.B., see Resende, L.	42 (1984) 1
Machura, M., see Kłosowiak, T.	12 (1977) 337	Martin, J.B., see Reddy, B.D.	93 (1991) 253
Maday, Y., see Bègue, C.	75 (1989) 109	Martin, J.B., see Rencontre, L.J.	96 (1992) 201
Maday, Y., see Ho, L.-W.	80 (1990) 65	Martin, W.A., see Zografos, A.I.	61 (1987) 177
Maday, Y., see Bernardi, C.	80 (1990) 229	Martin, W.W., see Currie, I.G.	21 (1980) 75
Mahajerin, E., see Burgess, G.	49 (1985) 1	Martins, J.A.C., see Oden, J.T.	52 (1985) 527
Maheshwari, M.N., see Pao, Y.C.	3 (1974) 305	Mascarell, J.P., see La Hargue, J.P.	75 (1989) 227
Maier, G., see Contro, R.	5 (1975) 127	Masoud, S.Z., see Boutros, Y.Z.	65 (1987) 215
Maier, G., see König, J.A.	8 (1976) 37	Masuda, N., see Yoshida, Y.	32 (1982) 285
Maier, G., see Kaneko, I.	27 (1981) 369	Masuda, Y., see Tanaka, M.	71 (1988) 225
Maier, G., see Comi, C.	96 (1992) 213	Masui, T., see Nakamura, T.	98 (1992) 1
Maitan, J., see Sarigul, N.	34 (1982) 939	Mathur, K.K., see Johan, Z.	99 (1992) 113
Maiti, M., see Patnaik, S.N.	7 (1971) 303	Matthews, R.D., see Kiehne, T.M.	83 (1990) 9
Majumdar, S., see Rodi, W.	75 (1989) 369	Maubach, J., see Axelsson, O.	71 (1988) 41
		Mavriplis, C., see Bègue, C.	75 (1989) 109

Mazzarella, C., see Polizzotto, C.	12 (1977) 129	Mlejnek, H.-P., see Argyris, J.H.	30 (1982) 335
Mazzarella, C., see Kaneko, I.	37 (1983) 185	Mlejnek, H.-P., see Jehle, U.	83 (1990) 33
McCammond, D., see Heng, Z.	54 (1986) 187	Mohamed, J., see Hendry, J.A.	35 (1982) 271
McCammond, D., see Heng, Z.	97 (1992) 317	Mohamedein, M.S.E.-D., see Iskandar, L.	96 (1992) 361
McGuire, W., see Orbison, J.G.	33 (1982) 557	Mohammadi, B., see Cardot, B.	87 (1991) 103
McKee, S., see Cameron, R.F.	29 (1981) 219	Mollestad, E., see Bergan, P.G.	49 (1985) 299
McKerrell, A., see Kermode, M.	50 (1985) 205	Montmitonnet, P., see Chenot, J.L.	92 (1991) 245
McInnis, B.C., see Huan, S.-L.	41 (1983) 123	Moore, D.B., see Boot, J.C.	43 (1984) 57
McMeeking, R.M., see Rice, J.R.	17/18 (1979) 411	Mora, J.A., see Vu-Quoc, L.	74 (1989) 117
McNeice, G.M., see Svec, O.J.	1 (1972) 265	Morgan, K., see Lewis, R.W.	20 (1979) 291
Mehta, A.K., see Peano, A.G.	16 (1978) 69	Morgan, K., see Lewis, R.W.	44 (1984) 17
Meissner, U., see Withum, D.	17/18 (1979) 699	Morgan, K., see Löhner, R.	45 (1984) 313
Mennig, J., see Auerbach, T.	2 (1973) 133	Morgan, K., see Löhner, R.	51 (1985) 441
Mennig, J., see Lemanska, M.	5 (1975) 329	Morgan, K., see Hassan, O.	76 (1989) 245
Mennig, J., see Auerbach, T.	76 (1989) 1	Morris, A.J., see Kelly, D.W.	12 (1977) 219
Merazzi, S., see Gruber, R.	91 (1991) 1135	Morris, A.J., see Jawed, A.H.	49 (1985) 175
Merlo, G., see Gabutti, B.	6 (1975) 31	Morris, A.J., see Watkins, R.I.	60 (1987) 233
Merriam, M., see Löhner, R.	95 (1992) 343	Morris, J.L., see Griffiths, D.F.	45 (1984) 177
Messerschmid, E.W., see Gogel, T.H.	89 (1991) 425	Mortara, K.W., see Dulikravich, G.S.	79 (1990) 309
Metzler, J.A., see Fried, I.	15 (1978) 83	Morton, K.W., see Barrett, J.W.	45 (1984) 97
Meyer, D.W., see Qiu, X.	93 (1991) 385	Mote Jr., C.D., see Young, R.C.	2 (1973) 159
Miedzialowski, C., see Desai, C.S.	62 (1987) 155	Mouroutsos, S.G., see Sparis, P.D.	40 (1983) 261
Miehe, C., see Wriggers, P.	70 (1988) 329	Mroz, Z., see Szelag, D.	19 (1979) 333
Miehe, C., see Simo, J.C.	98 (1992) 411	Mukherjee, S., see Zhang, Q.	86 (1991) 321
Miller, A., see Babuška, I.	61 (1987) 1	Mukhopadhyay, M., see Mukherjee, A.	71 (1988) 273
Miller, H.G., see Quick, R.M.	48 (1985) 301	Mullen, R., see Belytschko, T.	17/18 (1979) 259
Miller, J.J.H., see Fitzsimons, C.J.	84 (1990) 43	Mullen, R., see Belytschko, T.	27 (1981) 139
Miranda, I., see Loula, A.F.D.	63 (1987) 133	Müller, M., see Argyris, J.H.	10 (1977) 105
Miranda, I., see Loula, A.F.D.	63 (1987) 281	Müller, M., see Argyris, J.H.	13 (1978) 245
Miranda, I., see Loula, A.F.D.	72 (1989) 201	Müller, M., see Argyris, J.H.	15 (1978) 389
Missagh, M., see Bradley, D.	69 (1988) 133	Müller, M., see Argyris, J.H.	17/18 (1979) 1
Mistakidis, E.S., see Panagiotopoulos, P.D.	99 (1992) 395	Mund, E.H., see Francken, P.	80 (1990) 295
Mistry, J., see Sutcliffe, W.J.	7 (1976) 179	Mura, T., see Mastrojannis, E.N.	39 (1983) 93
Mitchell, A.R., see Griffiths, D.F.	45 (1984) 177	Murota, K., see Ikeda, K.	86 (1991) 215
Mitchell, G.P., see Reddy, B.D.	41 (1983) 237	Murphy, C.P., see Evans, D.J.	27 (1981) 81
Mittal, S., see Tezduyar, T.E.	87 (1991) 363	Nachlas, J.A., see Haftka, R.T.	60 (1987) 289
Mittal, S., see Tezduyar, T.E.	94 (1992) 353	Nagy, D., see Knudson, W.C.	4 (1974) 321
Mittal, S., see Tezduyar, T.E.	95 (1992) 221	Nagy, D., see König, M.	16 (1978) 185
Mittal, S., see Tezduyar, T.E.	99 (1992) 27	Naida, A.P., see Imshennik, V.S.	9 (1976) 1
Miyazawa, K., see Saito, Y.	6 (1975) 249	Nakacho, K., see Ueda, Y.	51 (1985) 157
Mizukami, A., see Hughes, T.J.R.	54 (1986) 341	Nakamura, H., see Rozvany, G.I.N.	24 (1980) 287
Mlejnek, H.-P., see Argyris, J.H.	15 (1978) 365	Nakazawa, S., see Zienkiewicz, O.C.	51 (1985) 3
Mlejnek, H.-P., see Argyris, J.H.	17/18 (1979) 1	Namburu, R.R., see Tamma, K.K.	71 (1988) 137
Mlejnek, H.-P., see Argyris, J.H.	19 (1979) 277		
Mlejnek, H.-P., see Argyris, J.H.	22 (1980) 1		
Mlejnek, H.-P., see Argyris, J.H.	24 (1980) 215		

Narayanan, G.V., see Beskos, D.E.

Nash, W.A., see Chon, Y.T.

Nath, C., see Matthies, H.G.

Nävert, U., see Johnson, C.

Nedelec, J.C., see Gregoire, J.P.

Nedelec, J.C., see Adam, J.C.

Needleman, A., see Ortiz, M.

Needleman, A., see Nacar, A.

Néel, P., see Charbonneau, G.

Negre, R., see Bottero, A.

Neittaanmäki, P., see Haslinger, J.

Nemat-Nasser, S., see Rashid, M.M.

Nemeth, M.P., see Noor, A.K.

Nemeth, M.P., see Noor, A.K.

Net, M., see Mercarder, I.

Neuner, O., see Swoboda, G.

Never, T., see Destuynder, P.

Never, T., see Destuynder, P.

Nguyen, V.-N., see Habashi, W.G.

Niamathullah, S.K., see Shabana, A.A.

Nickell, R.E., see Tanner, R.I.

Nickell, R.E., see Charman, C.M.

Nicolaides, R.A., see Gunzburger, M.D.

Niemann, L., see Rothert, H.

Nigro, N., see Storti, M.

Nishiguchi, I., see Okabe, M.

Nishiguchi, I., see Okabe, M.

Nishimura, T., see Kondo, N.

Nölling, S., see Dotsinis, I.S.

Nomura, T., see Yoshida, Y.

Norbury, J., see Meek, P.C.

Norton, M.P., see Chiu, W.K.

Nour-Omid, B., see Ortiz, M.

Noutsos, D., see Evans, D.J.

Nowell, D., see Dewynne, J.N.

Nyssen, C., see Sander, G.

Nyssen, C., see Idelsohn, S.

Obrecht, H., see Wunderlich, W.

Oden, J.T., see Wellford Jr., L.C.

Oden, J.T., see Wellford Jr., L.C.

Oden, J.T., see Babuška, I.

Oden, J.T., see Babuška, I.

Oden, J.T., see Ohtake, K.

Oden, J.T., see Ohtake, K.

37 (1983) 289
9 (1976) 139
48 (1985) 191
45 (1984) 285
8 (1976) 201
22 (1980) 327
61 (1987) 189
73 (1989) 235
98 (1992) 23
22 (1980) 131
42 (1984) 131
94 (1992) 201
21 (1980) 249
24 (1980) 35
91 (1991) 1245
34 (1982) 1073
68 (1988) 127
78 (1990) 73
87 (1991) 253
72 (1989) 195
6 (1975) 155
33 (1982) 759
39 (1983) 55
51 (1985) 139
93 (1991) 13
23 (1980) 85
23 (1980) 369
93 (1991) 169
89 (1991) 497
32 (1982) 285
46 (1984) 137
83 (1990) 231
58 (1986) 151
29 (1981) 97
97 (1992) 321
17/18 (1979) 315
30 (1982) 133
51 (1985) 259
5 (1975) 83
8 (1976) 1
11 (1977) 175
14 (1978) 1
24 (1980) 187
24 (1980) 317

Oden, J.T., see Campos, L.T.
Oden, J.T., see Pires, E.B.
Oden, J.T., see Martins, J.A.C.
Oden, J.T., see Jacquotte, O.-P.
Oden, J.T., see Demkowicz, L.
Oden, J.T., see Demkowicz, L.
Oden, J.T., see Kim, S.J.
Oden, J.T., see Demkowicz, L.
Oden, J.T., see Jacquotte, O.-P.
Oden, J.T., see Strouboulis, T.
Oden, J.T., see Devloo, P.
Oden, J.T., see Devloo, P.
Oden, J.T., see Demkowicz, L.
Oden, J.T., see Rachowicz, W.
Oden, J.T., see Strouboulis, T.
Oden, J.T., see Demkowicz, L.
Oden, J.T., see Demkowicz, L.
Oden, J.T., see Tworzydlo, W.W.
Oden, J.T., see Tworzydlo, W.W.
Ohsaki, M., see Nakamura, T.
Ohsaki, M., see Nakamura, T.
Ohsaki, M., see Nakamura, T.
Oliva, A., see Costa, M.
Oliva, A., see Alba, R.
Olsen, E.T., see Malkus, D.S.
Olson, M., see Vu-Quoc, L.
Olson, M.D., see Zhong, Q.
Olson, M.D., see Koko, T.S.
Oñate, E., see Codina, R.
Ong, J.S.-J., see Belytschko, T.
Ong, J.S.-J., see Belytschko, T.
Ong, J.S.-J., see Belytschko, T.
Ong, J.S.-J., see Liu, W.K.
Ong, J.S.-J., see Belytschko, T.
Ordieres Meré, J.B., see Alvarez Vigil, A.E.
Orkisz, J., see Argyris, J.H.
Orszag, S.A., see She, Z.-S.
Ortega, T., see De Frutos, J.
Ortiz, E.L., see El Misery, A.E.M.
Ortiz, M., see Pinsky, P.M.
Ortiz, M., see Simo, J.C.
Ortiz, M., see Nacar, A.
Osborn, J., see Arnold, D.N.
Osher, S., see Donat, R.
Ouellet, Y., see Soulaimani, A.
Ouellet, Y., see Soulaimani, A.

34 (1982) 821
39 (1983) 337
40 (1983) 327
44 (1984) 339
46 (1984) 217
53 (1985) 67
53 (1985) 277
55 (1986) 63
55 (1986) 102
59 (1986) 235
61 (1987) 339
70 (1988) 203
77 (1989) 79
77 (1989) 181
78 (1990) 201
84 (1990) 275
88 (1991) 363
95 (1992) 397
97 (1992) 245
67 (1988) 189
94 (1992) 113
98 (1992) 1
91 (1991) 1123
91 (1991) 1203
45 (1984) 331
76 (1989) 207
85 (1991) 131
90 (1991) 737
94 (1992) 239
43 (1984) 251
44 (1984) 269
51 (1985) 221
53 (1985) 13
62 (1987) 275
99 (1992) 147
16 (1978) 369
80 (1990) 173
80 (1990) 417
56 (1986) 265
40 (1983) 137
49 (1985) 221
73 (1989) 235
45 (1984) 57
80 (1990) 59
62 (1987) 47
86 (1991) 265

Owen, D.R.J., see Marques, J.M.M.C.

Owen, D.R.J., see Perić, D.

Page, R.H., see Pandolfini, P.P.

Pahl, P.J., see Hoff, C.

Pahl, P.J., see Hoff, C.

Pahl, P.J., see Hoff, C.

Palma, G.E., see Stetson, K.A.

Palma, J.M.L.M., see McGuirk, J.J.

Pan, T.T. see Carey, G.F.

Panagouli, O.K., see Panagiotopoulos, P.D.

Panzeca, T., see Polizzotto, C.

Papamichael, N., see Levin, D.

Papegay, Y., see Garnier, C.

Pardoen, G.C., see Hromadka II, T.V.

Park, K.C., see Felippa, C.A.

Park, K.C., see Underwood, P.G.

Park, K.C., see Felippa, C.A.

Park, K.C., see Nour-Omid, B.

Park, K.C., see Farhat, C.

Park, K.C., see Downer, J.D.

Park, Y.J., see Tezduyar, T.E.

Parks, D.M., see Nagtegaal, J.C.

Parks, D.M., see Rice, J.R.

Pasciak, J.E., see Bramble, J.H.

Pastor, J., see Bottero, A.

Patera, A.T., see Bègue, C.

Patera, A.T., see Ho, L.-W.

Patera, A.T., see Ho, L.-W.

Patera, A.T., see Anagnostou, G.

Paterlini, F., see Maier, G.

Patodi, S.C., see Buragohain, D.N.

Pattani, P., see Devloo, P.

Patterson, M.R., see Kleinstreuer, C.

Paul, B., see Singh, K.P.

Pavoni, D., see Bressan, N.

Payre, G., see Delfour, M.

Pécheux, J., see Le Quéré, P.

Peeters, P.P.J.M., see De Borst, R.

Peirce, D., see Needleman, A.

Peiro, J., see Morgan, K.

Pelle, J.P., see Ladeuze, P.

Pellegrini, F., see Elishakoff, I.

42 (1984) 167

94 (1992) 35

3 (1974) 29

67 (1988) 87

67 (1988) 367

76 (1989) 87

16 (1978) 151

96 (1992) 65

81 (1990) 1

99 (1992) 395

12 (1977) 129

12 (1977) 201

75 (1989) 215

53 (1985) 149

17/18 (1979) 277

22 (1980) 241

24 (1980) 61

61 (1987) 161

85 (1991) 349

96 (1992) 373

59 (1986) 307

4 (1974) 153

17/18 (1979) 411

67 (1988) 149

22 (1980) 131

75 (1989) 109

80 (1990) 65

80 (1990) 355

97 (1992) 33

19 (1979) 21

16 (1978) 313

70 (1988) 203

27 (1981) 1

2 (1973) 339

80 (1990) 443

50 (1985) 231

80 (1990) 261

77 (1989) 293

52 (1985) 689

87 (1991) 335

94 (1992) 303

66 (1988) 107

Peng, L., see Renwei, X.

Penicaud, J.-P., see Ravier, P.

Peraire, J., see Lee, J.H.W.

Peraire, J., see Hassan, O.

Peraire, J., see Zienkiewicz, O.C.

Peraire, J., see Morgan, K.

Perdon, A.M., see Gambolati, G.

Perego, U., see Comi, C.

Pérez Segarra, C.D., see Costa, M.

Pérez Segarra, C.D., see Alba, R.

Pergantis, S., see Sparis, P.D.

Periaux, J., see Bristeau, M.O.

Periaux, J., see Glowinski, R.

Periaux, J., see Bristeau, M.O.

Periaux, J., see Billey, V.

Periaux, J., see Atamian, C.

Perrier, P., see Bristeau, M.O.

Perrier, P., see Bristeau, M.O.

Pervez, T., see Zabaras, N.

Peshkam, V., see Dawe, D.J.

Peters, J.M., see Noor, A.K.

Peters, J.M., see Noor, A.

Peters, J.M., see Noor, A.K.

Peyret, R., see Guillard, H.

Peyret, R., see Fröhlich, J.

Peyret, R., see Fröhlich, J.

Pfendt, F., see Leipholz, H.H.E.

Pfendt, F., see Leipholz, H.H.E.

Philip, G.M., see Watson, D.F.

Picone, J.M., see Dahlburg, R.B.

Pierre, R., see Fortin, M.

Pietra, P., see Marini, L.D.

Pietra, P., see Brezzi, F.

Pillai, A.C.R., see Jain, M.K.

Pimenta, P.M., see Argyris, J.H.

Pimenta, P.M., see Argyris, J.H.

Pinder, G., see Hayes, L.

Pinsky, P.M., see Ortiz, M.

Pinsky, P.M., see Ortiz, M.

Pironneau, O., see Marrocco, A.

65 (1987) 101

75 (1989) 531

61 (1987) 359

76 (1989) 245

78 (1990) 105

87 (1991) 335

41 (1983) 1

96 (1992) 213

91 (1991) 1123

91 (1991) 1203

98 (1992) 273

17/18 (1979) 619

40 (1983) 27

51 (1985) 363

75 (1989) 409

91 (1991) 1271

17/18 (1979) 619

51 (1985) 363

81 (1990) 291

77 (1989) 1

21 (1980) 131

28 (1981) 217

29 (1981) 271

40 (1983) 199

44 (1984) 67

61 (1987) 277

71 (1988) 167

82 (1990) 341

51 (1985) 277

43 (1984) 21

66 (1988) 17

80 (1990) 425

90 (1991) 631

30 (1982) 19

37 (1983) 341

50 (1985) 195

80 (1990) 409

73 (1989) 341

56 (1986) 17

75 (1989) 493

38 (1983) 137

32 (1982) 3

45 (1984) 3

27 (1981) 265

36 (1983) 223

39 (1983) 137

15 (1978) 277

Pironneau, O., see Bristeau, M.O. 17/18 (1979) 619

Pironneau, O., see Bristeau, M.O. 51 (1985) 363

Pironneau, O., see Cardot, B. 87 (1991) 103

Pironneau, O., see Dean, E.J. 87 (1991) 117

Pister, K.S., see Vitiello, E. 8 (1976) 277

Pister, K.S., see Iding, R.H. 4 (1974) 121

Pister, K.S., see Argyris, J.H. 10 (1977) 199

Pister, K.S., see Ray, D. 14 (1978) 179

Pister, K.S., see Hughes, T.J.R. 17/18 (1979) 159

Pister, K.S., see Balling, R.J. 38 (1983) 237

Pister, K.S., see Pinsky, P.M. 40 (1983) 137

Pister, K.S., see Simo, J.C. 46 (1984) 201

Pister, K.S., see Simo, J.C. 51 (1985) 177

Pitkänta, J., see Johnson, C. 45 (1984) 285

Pitta, M.S., see Ioakimidis, N.I. 69 (1988) 325

Planchard, J., see Gregoire, J.P. 8 (1976) 201

Planchard, J., see Conca, C. 75 (1989) 27

Planchard, J., see Conca, C. 77 (1989) 253

Planchard, J., see Conca, C. 100 (1992) 295

Plank, L., see Stein, E. 52 (1985) 873

Plaskacz, E.J., see Belytschko, T. 81 (1990) 229

Plaut, R.H., see Shin, Y.S. 70 (1988) 151

Plemmons, R.J., see Berry, M.W. 64 (1987) 487

Plesha, M.E., see Malkus, D.S. 59 (1986) 281

Plesha, M.E., see Malkus, D.S. 68 (1988) 97

Plesha, M.E., see Qiu, X. 93 (1991) 385

Pletner, B., see Elishakoff, I. 88 (1991) 299

Poirier, C., see Mallet, M.

Poirier, D.R., see Heinrich, J.C.

Poirier, G., see Bristeau, M.O.

Polak, E., see Ray, D.

Polak, E., see Balling, R.J.

Polizzotto, C., see Kaneko, I.

Polizzotto, C., see Maier, G.

Polyzakis, M., see Jami, A.

Popov, E.P., see Larsen, P.K.

Popov, E.P., see Kiciman, Ö.K.

Potier-Ferry, M., see Cochelin, B.

Povinelli, L.A., see Jiang, B.-N.

Prager, W., see Absi, E.

Prager, W., see Rozvany, G.I.N.

Prakash, V., see Karamanlidis, D.

Prasad, U.S., see Ewing, R.E.

Prathap, G., see Naganarayana, B.P.

Prevost, J.H., see Loret, B.

Prevost, J.H., see Peirce, A.

Prevost, J.H., see Loret, B. 83 (1990) 247

Provatisdis, C., see Kanarachos, A. 63 (1987) 155

Provatisdis, C., see Kanarachos, A. 71 (1988) 151

Punch, E.F., see Rubinstein, R. 38 (1983) 63

Puranik, S.S., see Bhargava, R.D. 21 (1980) 63

Puranik, S., see Bhargava, R.D. 23 (1980) 281

Puri, S.B., see Dey, S.S. 31 (1982) 239

Qian, H., see Luo, S.J. 27 (1981) 129

Qian, J., see Wang, X.-X. 86 (1991) 73

Qinghua, Q., see Yuying, H. 100 (1992) 315

Qiu, C., see Zhong, W. 38 (1983) 1

Qiu, X., see Malkus, D.S. 66 (1988) 365

Quaranta, H.O., see Eterovic, J.E. 53 (1985) 91

Quartapelle, L., see Donea, J. 30 (1982) 53

Quartapelle, L., see Donea, J. 45 (1984) 123

Quartapelle, L., see Selmin, V. 52 (1985) 817

Quartapelle, L., see Donea, J. 95 (1992) 169

Quarteroni, A., see Battarra, V. 48 (1985) 329

Quarteroni, A., see Gastaldi, F. 80 (1990) 347

Quigley, J.J., see Ortiz, M. 90 (1991) 781

Quintela-Estevez, P., see Alvarez-Vazquez, L.J. 96 (1992) 1

Rachowicz, W., see Dermkowicz, L. 77 (1989) 79

Rachowicz, W., see Oden, J.T. 77 (1989) 113

Rachowicz, W., see Oden, J.T. 82 (1990) 183

Rachowicz, W., see Demkowicz, L. 84 (1990) 275

Rachowicz, W., see Demkowicz, L. 88 (1991) 363

Radicati, G., see Succi, S. 75 (1989) 543

Raffie, A., see Öz, H. 62 (1987) 17

Rafinejad, D., see Patankar, S.V. 6 (1975) 283

Railkar, S.B., see Tamma, K.K. 64 (1987) 415

Raiith, K., see Schönauer, W. 28 (1981) 327

Raiithby, G.D., see Stubley, G.D. 35 (1982) 153

Rajan, S.D., see Belegundu, A.D. 66 (1988) 87

Ramachandran, S.V., see Srinivasan, R.S. 7 (1976) 219

Ramakrishna, B.S., see Narayana Dutt, D. 13 (1978) 351

Ramamoorthy, P., see Sheela, B.V. 6 (1975) 309

Ramamurty, T.S., see Naganarayana, B.P. 97 (1992) 355

Ramaswamy, S., see Bathe, K.J. 23 (1980) 313

Ramshaw, J.D., see Hirt, C.W. 14 (1978) 93

Randriamampianina, A., see Chaouche, A. 80 (1990) 237

Rankin, C.C., see Nour-Omid, B. 93 (1991) 353

Rao, K.P., see Venkatesh, A.

Rao, K.P., see Holla, V.S.

Rarig, P.L., see Noor, A.K.

Rasmussen, H., see Forsyth Jr., P.

Rasmussen, J., see Olhoff, N.

Rath, A., see Distefano, N.

Rath, A., see Distefano, N.

Raviart, P.-A., see Ciarlet, P.G.

Raviart, P.-A., see Ciarlet, P.G.

Raviart, P.-A., see Adam, J.C.

Ray, S.E., see Tezduyar, T.E.

Ray, S.E., see Tezduyar, T.E.

Reddy, B.D., see Duffett, G.

Reddy, B.D., see Duffett, G.A.

Reddy, J.N., see Putcha, N.S.

Reddy, J.N., see Reddy, M.P.

Reyna, L., see Goodman, J.

Reynen, J., see Nguyen, H.

Rheinboldt, W.C., see Babuška, I.

Rheinboldt, W.C., see Babuška, I.

Rhyming, I.L., see Bottaro, A.

Ribando, R.J., see Heuser, G.E.

Ribando, R.J., see Frederick, J.W.

Rice, J.R., see Nagtegaal, J.C.

Richmond, O., see Zabaras, N.

Rick, C.C., see Evans, D.J.

Rideau, P., see Garnier, C.

Rifai, M.S., see Simo, J.C.

Rifai, M.S., see Simo, J.C.

Rifai, M.S., see Simo, J.C.

Riks, E., see Besseling, J.F.

Rimrott, F.P.J., see Gurani, A.

Rivkin, L., see Givoli, D.

Rizzo, F.J., see Rezayat, M.

Rizzo, F.J., see Liu, Y.

Rizzo, T., see Haftka, R.T.

Robert, Y., see Succi, S.

Robertson, S.J., see Thoenes, J.

Rodi, W., see Glass, J.

Rodi, W., see Zhu, J.

Rodrigues, H.C., see Bendsøe, M.P.

Rogé, G., see Brezzi, F.

Rogers, R.C., see Drummond, J.P.

Rolfes, R., see Stein, E.

Rønquist, E.M., see Ho, L.-W.

Rønquist, E.M., see Maday, Y.

38 (1983) 255
44 (1984) 1
3 (1974) 319
23 (1980) 129
89 (1991) 259
5 (1975) 353
6 (1975) 219
1 (1972) 217
2 (1973) 17
22 (1980) 327
95 (1992) 221
99 (1992) 27
41 (1983) 105
59 (1986) 179
44 (1984) 213
100 (1992) 169
57 (1986) 107
42 (1984) 331
17/18 (1979) 519
34 (1982) 895
89 (1991) 41
57 (1986) 207
93 (1991) 401
4 (1974) 153
81 (1990) 333
22 (1980) 309
75 (1989) 215
73 (1989) 53
79 (1990) 21
81 (1990) 91
17/18 (1979) 131
76 (1989) 157
93 (1991) 111
55 (1986) 349
96 (1992) 271
60 (1987) 289
75 (1989) 543
51 (1985) 495
31 (1982) 337
92 (1991) 87
87 (1991) 15
96 (1992) 117
64 (1987) 39
84 (1990) 77
80 (1990) 65
80 (1990) 91

Rønquist, E.M., see Anagnostou, G.

Rosanoff, R.A., see Argyris, J.H.

Rosati, M., see Geymonat, G.

Rosenberg, J., see Hlaváček, I.

Rosier, C., see Jauberteau, F.

Rousseau, A., see Arminjon, P.

Roy, J.R., see Von Fuchs, G.

Roy, J.R., see Johnsen, T.L.

Roy, J.R., see Argyris, J.H.

Rozvany, G.I.N., see Hill, R.D.

Rozvany, G.I.N., see Ong, T.-G.

Rozvany, G.I.N., see Zhou, M.

Ruan, Y., see Zabaras, N.

Ruas, V., see Le Tallec, P.

Rubin, M.B., see Luehr, C.P.

Rudowski, K., see Osiadacz, A.J.

Russell, T.F., see Ewing, R.E.

Russell, W.C., see Noor, A.K.

Russo, A., see Brezzi, F.

Russo, G., see Di Blasi, C.

Russo, G., see Di Blasi, C.

Ryland, G., see Padovan, J.

Rys, F.S., see Bottaro, A.

Rys, P., see Bottaro, A.

Ryzynski, W., see Desai, C.S.

Sabag, M., see Greenberg, J.B.

Sacchi, G., see Chinosi, C.

Sacchi Landriani, G., see Gastaldi, F.

Sackman, J.L., see Hughes, T.J.R.

Safar, Y.A., see Fawzi, T.H.

Sahimi, M.S., see Evans, D.J.

Saigal, S., see Kane, J.H.

Salaam, U., see Sandhu, R.S.

Saleeb, A.F., see Chang, T.Y.

Saltel, E., see George, P.L.

Samartin, A., see Distefano, N.

Sander, G., see Carnoy, E.

Sander, G., see Fleury, C.

Sankar, L.N., see Sotomayer, W.A.

Sankar, T.S., see Fabrikant, V.

Sanz-Serna, J.M., see Christie, I.

Sanz-Serna, J.M., see De Frutos, J.

Saotome, H., see Saito, Y.

Saotome, H., see Saito, Y.

Sartoretto, F., see Gambolati, G.

97 (1992) 33
7 (1976) 261
75 (1989) 39
94 (1992) 93
80 (1990) 245
49 (1985) 17
1 (1972) 197
3 (1974) 357
7 (1976) 261
49 (1985) 131
66 (1988) 301
89 (1991) 309
81 (1990) 333
54 (1986) 235
84 (1990) 243
65 (1987) 201
47 (1984) 73
57 (1986) 257
73 (1989) 317
75 (1989) 481
90 (1991) 643
79 (1990) 113
89 (1991) 41
89 (1991) 41
62 (1987) 155
70 (1988) 91
80 (1990) 327
80 (1990) 347
8 (1976) 249
60 (1987) 343
84 (1990) 15
79 (1990) 219
7 (1976) 75
73 (1989) 259
92 (1990) 269
5 (1975) 37
32 (1982) 329
37 (1983) 249
64 (1987) 237
29 (1981) 19
44 (1984) 229
80 (1990) 417
38 (1983) 185
49 (1985) 109
94 (1992) 13

Sathyamoorthy, M., see Boston, D.R. 57 (1986) 17

Sawamiphakdi, K., see Chang, T.Y. 32 (1982) 311

Sawczuk, A., see Kleiber, M. 33 (1982) 487

Sawczuk, A., see Andreaus, U. 39 (1983) 21

Scapolla, T., see Chinosi, C. 80 (1990) 327

Schapery, R.A., see Tielking, J.T. 26 (1981) 181

Scharpf, D.W., see Argyris, J.H. 1 (1972) 81

Scharpf, D.W., see Argyris, J.H. 14 (1978) 401

Scharpf, D.W., see Argyris, J.H. 15 (1978) 99

Scharpf, D.W., see Argyris, J.H. 17/18 (1979) 1

Scharpf, D.W., see Argyris, J.H. 20 (1979) 105

Schatz, A.H., see Bramble, J.H. 67 (1988) 149

Scheideler, W., see Siekmann, J. 28 (1981) 103

Schelkle, E., see Argyris, J.H. 10 (1977) 371

Schelkle, E., see Argyris, J.H. 11 (1977) 97

Schiff, B., see Rippa, S. 84 (1990) 257

Schmidt, W., see Jameson, A. 51 (1985) 467

Schnipke, R.J., see Rice, J.G. 48 (1985) 313

Schnipke, R.J., see Rice, J.G. 58 (1986) 135

Schnurr, N.M., see Gray, W.H. 6 (1975) 243

Schönung, B. see Rodi, W. 75 (1989) 369

Schrade, H.O., see Gogel, T.H. 89 (1990) 425

Schrem, E., see Von Fuchs, G. 1 (1972) 197

Schreyer, H.L., see Chen, Z. 90 (1991) 869

Schultz, D., see Greenspan, D.

Schweitzer, U., see Niethammer, W.

Schwenn, U., see Gruber, R.

Scott, R.A., see Lee, M.S.

Seager, M.K., see Carey, G.F.

Seebass, A.R., see Hassan, A.A.

Segre, J., see Rogier, F.

Selmin, V., see Billey, V.

Semenzato, S., see Gruber, R.

Semsarzadeh, G.A., see Shore, S.

Seong, H.G., see Choi, K.K.

Sepehrnoori, K., see Carey, G.F.

Serna, M.A., see Bayo, E.

Shabana, A.A., see Changizi, K.

Shabana, A.A., see Agrawal, O.P.

Shakib, F., see Johan, Z.

Shakib, F., see Mallet, M.

Shamroth, S.J., see Kreskovsky, J.P.

Shamroth, S.J., see Kreskovsky, J.P.

Shanehchi, J., see Evans, D.J.

Shapeev, V.P., see Fomin, V.M. 32 (1982) 157

Sharma, D., see Curr, R.M. 1 (1972) 143

Sharma, K.G., see Desai, C.S. 82 (1990) 115

Shaw, R.H.H., see Anand, S.C. 15 (1978) 1

Sheikholeslami, M.Z. see Chen, C.J. 75 (1989) 61

Shen, J., see Ewing, R.E. 89 (1991) 73

Shen, Y., see Carey, G.F. 93 (1991) 1

Shen, Y.-W., see Liu, G. 96 (1992) 109

Shephard, M.S., see Benantar, M. 82 (1990) 73

Shestopal, O.Y., see Shestopal, V.O. 25 (1981) 85

Sheu, M.J., see Chen, D.R. 68 (1988) 345

Sheu, M.J., see Chen, D.R. 74 (1989) 55

Sheu, M.J., see Chen, C.P. 98 (1992) 251

Shih, C.F., see Needleman, A. 15 (1978) 223

Shih, R., see Tezduyar, T.E. 87 (1991) 363

Shih, R., see Tezduyar, T.E. 95 (1992) 221

Shindo, A., see Tomita, Y. 35 (1982) 207

Shippy, D.J., see Rezayat, M. 55 (1986) 349

Shippy, D.J., see Kondapalli, P.S. 96 (1992) 255

Shir, C.C., see Langlois, W.E. 12 (1977) 145

Shou, W., see Zhu, P. 26 (1981) 305

Shunmugam, M.S., see Dhanish, P.B. 92 (1991) 309

Sideridis, A., see Levin, D. 12 (1977) 201

Silvennoinen, R., see Koski, J. 31 (1982) 265

Simo, J.C., see Fox, D.D. 98 (1992) 329

Singh, A.P., see Jaluria, Y. 41 (1983) 145

Singh, K.J., see Sandhu, R.S. 14 (1978) 23

Singhal, K., see Jain, N.K. 40 (1983) 277

Siu, A.L.-W., see Pollard, A. 35 (1982) 293

Skerget, P., see Alujevic, A. 91 (1991) 1187

Sleziona, P.C., see Gogel, T.H. 89 (1991) 425

Slonim, M.A., see Kremer, Z. 72 (1989) 1

Sluys, L.J., see De Borst, R. 90 (1991) 805

Smith, F.W., see Girrens, S.P. 62 (1987) 209

Smith, L., see Arminjon, P. 100 (1992) 149

Smolinski, P., see Donea, J. 48 (1985) 25

Smolinski, P., see Belytschko, T. 49 (1985) 281

Sobh, N., see Farhat, C. 84 (1990) 147

Sobieczky, H., see Hassan, A.A. 58 (1986) 285

Soler, A.I., see Hutchins, G.J. 1 (1972) 307

Soler, A., see Barrett, D. 25 (1981) 299

Soliman, M.O., see Baker, A.J. 27 (1981) 215

Song, Y.J., see Oden, J.T. 31 (1982) 297

Sonnad, V., see King, R.B. 65 (1987) 47

Søreide, T., see Bergan, P.G. 2 (1973) 185

Sorensen, E.P., see Rice, J.R.	17/18 (1979) 411	Sudarsan, V.R., see Batra, R.L.	95 (1992) 1
Soubaramayer, see Lahargue, J.P.	15 (1978) 259	Sui, Y., see Qian, L.x.	30 (1982) 209
Spalding, D.B., see Caretto, L.S.	1 (1972) 39	Sunderland, J.E., see Zografos, A.I.	61 (1987) 177
Spalding, D.B., see Launder, B.E.	3 (1974) 269	Sur, U., see Liu, N.	84 (1990) 211
Spalding, D.B., see Patankar, S.V.	6 (1975) 283	Suri, M., see Babuška, I.	80 (1990) 5
Spalding, D.B., see Pollard, A.	13 (1978) 293	Suri, M., see Jensen, S.	97 (1992) 233
Spalding, D.B., see Markatos, N.C.G.	15 (1978) 161	Svoboda, M., see Balasubramanian, B.	89 (1991) 337
Spalding, D.B., see Singhal, A.K.	25 (1981) 365	Symeonidis, S., see Argyris, J.H.	26 (1981) 75
Spekreyse, S.P., see Boerstoel, J.W.	89 (1991) 237	Symeonidis, S., see Argyris, J.H.	26 (1981) 377
Spiliopoulos, K.V., see Chan, A.S.L.	60 (1987) 257	Symeonidis, S., see Argyris, J.H.	28 (1981) 241
Spradley, L.W., see Thoenes, J.	51 (1985) 495	Symeonidis, S., see Argyris, J.H.	32 (1982) 59
Sreekanth, A.K., see Dutt, H.N.V.	19 (1979) 417	Symm, G.T., see Papamichael, N.	6 (1975) 175
Sreekanth, A.K., see Dutt, H.N.V.	23 (1980) 355	Szabo, B.A., see Peano, A.G.	16 (1978) 69
Srinivas, K., see Fletcher, C.A.J.	41 (1983) 297	Szepessy, A., see Hansbo, P.	84 (1990) 175
Srinivas, K., see Fletcher, C.A.J.	46 (1984) 313	Szeto, W.-T., see Ong, T.-G.	66 (1988) 301
Srivastava, N.K., see Patnaik, S.N.	9 (1976) 245	Szimmat, J., see Argyris, J.H.	10 (1977) 199
Srivatsa, S.K., see Rodi, W.	23 (1980) 67	Szimmat, J., see Argyris, J.H.	33 (1982) 635
Stafford, R.O., see Kelly, D.W.	12 (1977) 219	Szimmat, J., see Argyris, J.	94 (1992) 155
Stavski, Y., see Greenberg, J.B.	70 (1988) 91	Szimmat, J., see Argyris, J.	94 (1992) 181
Stavsky, Y., see Givoli, D.	96 (1992) 45	Szmelter, J., see Zienkiewicz, O.C.	78 (1990) 105
Steenkamp, M.C., see Quick, R.M.	48 (1985) 301	Szmidt, K., see Wilde, P.	36 (1983) 1
Steenstrup, S., see Sjøtoft, E.	21 (1980) 357	Szymczak, W.G., see Babuška, I.	31 (1982) 19
Stein, E., see Plank, L.	82 (1990) 223	Tabarrok, B., see Heng, Z.	54 (1986) 187
Stein, L.R., see Hirt, C.W.	14 (1978) 93	Tabbarok, B., see Rajpal, S.D.O.	62 (1987) 245
Stephan, E.P., see Babuška, I.	80 (1990) 319	Taddei, F., see Maier, G.	17/18 (1979) 469
Stephan, E.P., see Postell, F.V.	83 (1990) 69	Takahashi, Y., see Yagawa, G.	51 (1985) 51
Stewart, I.B., see Webber, J.P.H.	92 (1991) 325	Take, T., see Kida, T.	36 (1983) 127
Stolarski, H., see Belytschko, T.	51 (1985) 221	Take, T., see Kida, T.	36 (1983) 191
Stone, J.A.R., see Raggett, G.F.	4 (1974) 39	Tan, H.S., see Meek, J.L.	43 (1984) 181
Stone, J.A.R., see Raggett, G.F.	8 (1976) 139	Tan, H.S., see Meek, J.L.	47 (1984) 261
Storti, M.A., see Baumann, C.E.	95 (1992) 49	Tan, H.S., see Meek, J.L.	57 (1986) 143
Stoufflet, B., see Billey, V.	75 (1989) 409	Tanaka, M., see Kikuta, M.	62 (1987) 321
Strada, M., see Lewis, R.W.	20 (1979) 291	Tang, J., see Elishakoff, I.	68 (1988) 229
Strang, G., see Nickell, R.E.	17/18 (1979) 561	Tanguy, P., see Fortin, A.	58 (1986) 337
Straub, K., see Argyris, J.H.	28 (1981) 241	Tanguy, P.A., see Fauchon, D.	70 (1988) 139
Straub, K., see Argyris, J.H.	32 (1982) 59	Tanguy, P.A., see Robichaud, M.P.	75 (1989) 359
Street, R.L., see Meakin, R.L.	68 (1988) 151	Tanguy, P.A., see Hurez, P.	86 (1991) 87
Street, R.L., see Meakin, R.L.	68 (1988) 311	Tanguy, P.A., see Fortin, A.	88 (1991) 97
Streiner, P., see König, M.	16 (1978) 185	Tanguy, P.A., see Grygiel, J.-M.	93 (1991) 277
Strong, A.B., see Stuble, G.D.	35 (1982) 153	Tanner, J.A., see Noor, A.K.	63 (1987) 37
Strouboulis, T., see Demkowicz, L	46 (1984) 217	Tarnow, N., see Simo, J.C.	100 (1992) 63
Strouboulis, T., see Oden, J.T.	59 (1986) 327	Tatchell, D.G., see Curr, R.M.	1 (1972) 143
Strouboulis, T., see Devloo, P.	61 (1987) 339	Tatchell, D.G., see Markatos, N.C.G.	15 (1978) 161
Subramanyam, G.S., see Jain, M.K.	42 (1984) 273	Taylor, C., see Morgan, K.	19 (1979) 117

Taylor, J.E., see Diaz, A.R. 41 (1983) 29
 Taylor, J.E., see Kikuchi, N. 57 (1986) 67
 Taylor, L.M., see Hibbitt, H.D. 17/18 (1979) 203
 Taylor, L.M., see Flanagan, D.P. 62 (1987) 305
 Taylor, R.L., see Goudreau, G.L. 2 (1973) 69
 Taylor, R.L., see Iding, R.H. 4 (1974) 121
 Taylor, R.L., see Hughes, T.J.R. 8 (1976) 249
 Taylor, R.L., see Hughes, T.J.R. 17/18 (1979) 159
 Taylor, R.L., see Simo, J.C. 35 (1982) 107
 Taylor, R.L., see Ortiz, M. 36 (1983) 223
 Taylor, R.L., see Ortiz, M. 39 (1983) 137
 Taylor, R.L., see Simo, J.C. 42 (1984) 301
 Taylor, R.L., see Simo, J.C. 48 (1985) 101
 Taylor, R.L., see Simo, J.C. 50 (1985) 163
 Taylor, R.L., see Simo, J.C. 51 (1985) 177
 Taylor, R.L., see Simo, J.C. 74 (1989) 177
 Taylor, R.L., see Weissmann, S.L. 79 (1990) 321
 Taylor, R.L., see Weissman, S.L. 85 (1991) 39
 Taylor, R.L., see Simo, J.C. 85 (1991) 273
 Taylor, R.L., see Papadopoulos, P. 94 (1992) 373
 Taylor, R.L., see Weissman, S.L. 94 (1992) 391
 Taylor, R.L., see Weissman, S.L. 98 (1992) 127
 Taylor, T.D., see Holt, M. 16 (1978) 281
 Taylor, T.D., see Ku, H.-C. 75 (1989) 141
 Taylor, T.D., see Ku, H.C. 80 (1990) 381
 Telste, J., see Ohring, S. 21 (1980) 315
 Temam, R., see Jauberteau, F. 80 (1990) 245
 Templeman, A.B., see Yates, D.F. 37 (1983) 37
 Tessler, A., see Fried, I. 56 (1986) 283
 Tezduyar, T.E., see Hughes, T.J.R. 45 (1984) 217
 Tezduyar, T.E., see Ganjoo, D.K. 65 (1987) 61
 Tezduyar, T.E., see Ganjoo, D.K. 75 (1989) 515
 Tezduyar, T., see Pironneau, O. 100 (1992) 117
 Theocaris, P.S., see Tsamasphyros, G. 31 (1982) 79
 Theocharis, A.P., see Papadrakakis, M. 88 (1991) 165
 Theotokoglou, E.E., see Theocaris, P.S. 31 (1982) 117
 Thomas, J.M., see Amara, M. 39 (1983) 1
 Thomas, H.R., see Lewis, R.W. 20 (1979) 291
 Thompson, J.M.T., see Foale, S. 89 (1991) 381
 Thornton, E.A., see Tworzydlo, W.W. 95 (1992) 397
 Thyagaraja, A., see Pollard, A. 19 (1979) 107
 Tietze, P., see Siekmann, J. 28 (1981) 103
 Tin-Loi, F., see Wakefield, R.R. 84 (1990) 229
 Ting, T.C.T., see Lee, E.H. 5 (1975) 69
 Togoh, H., see Kikuta, M. 62 (1987) 321
 Tolikas, D., see Latinopoulos, P. 23 (1980) 215
 Tolley, M., see Descloux, J. 39 (1983) 37
 Torigaki, T., see Kikuchi, N. 57 (1986) 67
 Torzicky, P., see Li, H.-B. 54 (1986) 161
 Tosaka, N., see Kondo, N. 93 (1991) 169
 Touzani, R., see Caussignac, P. 78 (1990) 249
 Touzani, R., see Caussignac, P. 79 (1990) 1
 Townsend, P., see Tamaddon-Jahromi, H.R. 95 (1992) 301
 Toyoshima, S., see Zienkiewicz, O.C. 51 (1985) 3
 Tralli, A., see Alliney, S. 46 (1984) 177
 Tralli, A., see Alliney, S. 51 (1985) 209
 Tranberg, C.H., see Swannell, P. 16 (1978) 291
 Trbojevic, V.M., see Chan, A.S.L. 9 (1976) 337
 Trbojevic, V.M., see Chan, A.S.L. 10 (1977) 75
 Trefethen, L.N., see Reddy, S.C. 80 (1990) 147
 Tripp, J., see Fung, K.-Y. 66 (1988) 1
 Troina, L.M., see Coutinho, A.L.G.A. 84 (1990) 129
 Tsamasphyros, G., see Theocaris, P.S. 31 (1982) 117
 Tsay, C.S., see Belytschko, T. 29 (1981) 313
 Tsay, C.-S., see Belytschko, T. 42 (1984) 225
 Tsuei, Y.G., see Nilson, R.H. 6 (1975) 265
 Tsuya, N., see Saito, Y. 49 (1985) 109
 Turcke, D.J., see Tang, J.W. 11 (1977) 31
 Turgeman, S., see Bottero, A. 22 (1980) 131
 Twizell, E.H., see Khalil, A.Q.M. 43 (1984) 45
 Ula, N., see Nouh, A. 36 (1983) 147
 Unda, J., see García de Jalón, J. 56 (1986) 309
 Underwood, P.G., see Park, K.C. 23 (1980) 259
 Uras, R.A., see Liu, W.K. 53 (1985) 13
 Uras, R.A., see Bachrach, W.E. 55 (1986) 43
 Urban, J., see Argyris, J. 89 (1991) 85
 Utke, M., see Carey, G.F. 30 (1982) 151
 Utke, S., see Salama, M. 10 (1977) 325
 Utke, S., see Ramesh, A.V. 90 (1991) 761
 Vaclavik, J., see Succi, S. 75 (1989) 543
 Vahdani, B., see Wellford Jr., L.C. 26 (1981) 33
 Valente, V., see Geymonat, G. 75 (1989) 39
 Van Der Werff, see Besseling, J.F. 17/18 (1979) 131
 Vanden Brink, D.J., see Kamat, M.P. 26 (1981) 363
 Vanninathan, M., see Conca, C. 69 (1988) 215
 Vanninathan, M., see Conca, C. 75 (1989) 27

Vanninathan, M., see Conca, C.	77 (1989) 253	Watson, L.T., see Haftka, R.T.	60 (1987) 289
Vaz, L.E., see Argyris, J.H.	12 (1977) 243	Watson, L.T., see Shin, Y.S.	70 (1988) 151
Vaz, L.E., see Argyris, J.H.	16 (1978) 231	Webel, H., see Rosanoff, R.A.	7 (1976) 369
Vaz, L.E., see Argyris, J.H.	17/18 (1979) 341	Weber, R., see Brauchli, H.	91 (1991) 1403
Veldpaus, F.E., see Schreurs, P.J.G.	58 (1986) 19	Webster, M.F., see Tamaddon-Jahromi, H.R.	95 (1992) 301
Venkateswara Rao, G., see Raju, P.C.	15 (1978) 201	Wehrli, M.B., see Bottaro, A.	89 (1991) 41
Venter, A., see Yavin, Y.	28 (1981) 129	Weifang, Z., see Yuying, H.	100 (1992) 315
Vibet, C., see Cotsaftis, M.	74 (1989) 29	Weiser, A., see Sanders, R.	75 (1989) 91
Vibet, C., see Charbonneau, G.	98 (1992) 23	Weisstein, L.S., see Noor, A.K.	25 (1981) 179
Vidrascu, M., see De Roeck, Y.-H.	99 (1992) 187	Weitsman, Y., see Aboudi, J.	4 (1974) 349
Vilotte, J.P., see Zienkiewicz, O.C.	51 (1985) 3	Welfert, B.D., see Bank, R.E.	82 (1990) 323
Vinarnick, S., see Charbonneau, G.	98 (1992) 23	Welfert, B.D., see Bank, R.E.	83 (1990) 61
Vinatier, M.C., see Bellet, D.	63 (1987) 167	Wellford Jr., L.C., see Vahdani, B.	66 (1988) 221
Vlachos, N., see Markatos, N.C.G.	15 (1978) 161	Wempner, G., see Talaslidis, D.	34 (1982) 1051
Vlachos, N.S., see Samagaio, A.	75 (1989) 393	Wendland, W.L., see Stephan, E.	36 (1983) 331
Volpi, M.B., see Reddy, B.D.	97 (1992) 125	Werner, H., see Rank, E.	30 (1982) 95
Vorozhtsov, E.V., see Yanenko, N.N.	17/18 (1979) 659	Westermann, T.A., see Oden, J.T.	77 (1989) 113
Vos, J.B., see Bergman, C.M.	89 (1991) 523	Westermann, T.A., see Oden, J.T.	82 (1990) 183
Voss, D.A., see Mastro, R.A.	25 (1981) 129	Wheeler, M.F., see Ewing, R.E.	47 (1984) 73
Vu-Quoc, L., see Simo, J.C.	58 (1986) 79	Wheeler, M.F., see Douglas, Jr., J.	47 (1984) 119
Vu-Quoc, L., see Simo, J.C.	66 (1988) 125	Wheeler, M.F., see Douglas, Jr., J.	47 (1984) 131
Wada, B.K., see Ramesh, A.V.	90 (1991) 761	Wheeler, M.F., see Cowsar, L.C.	82 (1990) 205
Wagner, W., see Wriggers, P.	70 (1988) 329	Whiteman, J.R., see Harrison, D.	34 (1982) 1019
Wah, T., see Subrahmanyam, M.B.	43 (1984) 315	Whiteman, J.R., see Warby, M.K.	68 (1988) 33
Wahlbin, L.B., see Dupont, T.F.	45 (1984) 167	Whiteman, J.R., see Hlaváček, I.	94 (1992) 93
Wait, R., see Hopkins, T.R.	9 (1976) 181	Whiteman, J.R., see Warby, M.K.	97 (1992) 375
Wait, R., see Hopkins, T.R.	19 (1979) 401	Wibbeler, H., see Meissner, U.	85 (1991) 89
Wallrapp, O., see Fuehrer, C.	46 (1984) 169	Willam, K.J., see Argyris, J.H.	8 (1976) 215
Walton, J.R., see Warby, M.K.	97 (1992) 375	Willam, K.J., see Argyris, J.H.	10 (1977) 199
Wang, C.-M., see Rozvany, G.I.N.	31 (1982) 91	Willam, K.J., see Argyris, J.H.	12 (1977) 243
Wang, D.Q., see Luo, S.J.	27 (1981) 129	Willam, K.J., see Argyris, J.H.	16 (1978) 231
Wang, J.F., see Wu, S.T.	64 (1987) 267	Willam, K.J., see Argyris, J.H.	17/18 (1979) 341
Wang, J., see Ewing, R.E.	89 (1991) 73	Willam, K.J., see Argyris, J.H.	33 (1982) 635
Wang, S., see Fitzsimons, C.J.	84 (1990) 43	Willam, K., see Steinmann, P.	90 (1991) 845
Wang, W.-F., see Pan, N.-Q.	37 (1983) 1	Williams, P.G., see Cebecli, T.	27 (1981) 13
Ward, P., see Hitchings, D.	9 (1976) 191	Willmert, K.D., see Boston, D.R.	57 (1986) 17
Ward, T.J.W., see Harrison, D.	34 (1982) 1019	Wills, C.B., see Markatos, N.-C.G.	29 (1981) 175
Waszczyzyn, Z., see Radwańska, M.	23 (1980) 341	Wills, J., see Crisfield, M.A.	66 (1988) 267
Wathen, A.J., see Lee, H.-C.	92 (1991) 215	Wilson, D.E., see Kiehne, T.M.	83 (1990) 9
Wathugala, G.W., see Desai, C.S.	82 (1990) 115	Wilson, E.L., see Clough, R.W.	17/18 (1979) 107
Watkins, A.P., see Ahmadi-Befrui, B.	79 (1990) 249	Wilson, J.L., see Shore, S.	5 (1975) 197
Watson, J.O., see Lachat, J.C.	10 (1977) 273	Wilson, P.D., see Raggett, G.F.	4 (1974) 39
Watson, L.T., see Kamat, M.P.	26 (1981) 363	Wilton, D.T., see Amini, S.	54 (1986) 49
		Wimp, J., see Fair, W.	11 (1977) 207
		Winget, J., see Hughes, T.J.R.	36 (1983) 241
		Wisher, S.J., see Raggett, G.F.	8 (1976) 139
		Withey, R.D., see Bailey, C.D.	42 (1984) 71
		Wolf, J.P., see Chan, A.S.L.	13 (1978) 1

Wong, B.L., see Belytschko, T. 96 (1992) 93
 Wong, C., see Murray, D.W. 23 (1980) 35
 Wong, K.K., see Simo, J.C. 100 (1992) 63
 Wong, K.-L., see Lee, S.-C. 50 (1985) 147
 Wong, K.-L., see Chen, C.-K. 59 (1986) 73
 Wong, M.B., see Tin-Loi, F. 72 (1989) 351
 Woo, L., see Desai, C.S. 82 (1990) 115
 Wood III, H.G., see Gunzburger, M.D. 31 (1982) 43
 Wood, III, H.G., see Heuser, G.E. 57 (1986) 207
 Wood III, H.G., see Babarsky, R.J. 81 (1990) 317
 Wood, H.G., see Frederick, J.W. 93 (1991) 401
 Woodbury, A.D., see Nour-Omid, B. 88 (1991) 75
 Woolner, K.A., see Stuble, G.D. 35 (1982) 153
 Wray, A.A., see Degani, D. 25 (1981) 11
 Wriggers, P., see Stein, E. 34 (1982) 861
 Wriggers, P., see Simo, J.C. 50 (1985) 163
 Wriggers, P., see Nour-Omid, B. 54 (1986) 131
 Wriggers, P., see Schweizerhof, K.H. 59 (1986) 261
 Wu, C.H., see Fitzsimons, C.J. 84 (1990) 43
 Wüstenberg, H., see Argyris, J.H. 32 (1982) 3
 Wüstenberg, H., see Argyris, J.H. 45 (1984) 3
 Wüstenberg, H., see Argyris, J.H. 51 (1985) 289
 Wüthrich, S., see Sawley, M.L. 89 (1991) 129
 Xanthis, L.S., see Atkinson, C. 29 (1981) 35
 Xu, J., see Tabarrok, T. 63 (1987) 1
 Xu, S.-J., see Pan, N.-Q. 37 (1983) 1
 Xu, Y.-L., see Achenbach, J.D. 70 (1988) 191
 Yadagiri, S., see Patnaik, S.N.
 Yakoumidakis, M., see Papadra-kakis, M. 16 (1978) 213
 Yamada, Y., see Okabe, M. 62 (1987) 195
 Yamada, Y., see Okabe, M. 23 (1980) 85
 Yamamura, T., see Saito, Y. 23 (1980) 369
 Yanenko, N.N., see Kovaljov, O.B. 38 (1983) 185
 Yanenko, N.N., see Fomin, V.M. 22 (1980) 259
 Yang, R.J., see Barone, M.R. 32 (1982) 157
 Yang, W.H., see Lee, E.H. 74 (1989) 69
 Yang, W.H., see Lee, E.H. 5 (1975) 69
 Yang, W.H., see Watson, L. 10 (1977) 339
 Yang, W.H., see O'Leary, D.P. 15 (1978) 353
 Yankelevsky, D.Z., see Adin, M.A. 16 (1978) 361
 Yao, T., see Ueda, Y. 49 (1985) 319
 Yao, T., see Ueda, Y. 34 (1982) 1089
 Yardeni, D., see Kaplan, B.Z. 63 (1987) 305
 Yavin, Y., see Friedman, M. 8 (1976) 349
 Yavin, Y., see Friedman, M. 16 (1978) 37
 Yavin, Y., see Huisman, W.C. 21 (1980) 171
 Yeh, P.-W., see Brown, R.A. 58 (1986) 201
 Yen, H.-J., see Belytschko, T. 17/18 (1979) 259
 Yerry, M.A., see Shephard, M.S. 55 (1986) 161
 Yi, H., see Tabarrok, B. 70 (1988) 275
 Yimin, B., see Chuanrong, Z. 83 (1990) 99
 Yoon, W.S., see Chung, T.J. 90 (1991) 583
 Yu, C.C., see Heinrich, J.C. 69 (1988) 1
 Yu, C.-S., see Li, Z.-C. 36 (1983) 61
 Yuen, S.W., see Lau, S.L. 91 (1991) 1109
 Yumashev, V.L., see Orlov, I.V. 91 (1991) 1379
 Zacharski, A., see Kleiber, M. 31 (1982) 149
 Zaman, M.M., see Issa, A. 56 (1986) 47
 Zaman, M., see Faruque, M.O. 92 (1991) 75
 Zapryanov, Z., see Christov, C. 22 (1980) 49
 Zavelani, A., see Corradi, L. 3 (1974) 37
 Zavelani, A., see Contro, R. 5 (1975) 127
 Zehrfeld, H.P., see Gruber, R. 52 (1985) 675
 Zhang, J., see Qian, L.x. 30 (1982) 209
 Zhang, Q., see Gao, X. 69 (1988) 45
 Zhang, X.-H., see Shen, K.-Y. 60 (1987) 139
 Zhang, Y.F., see Liu, W.K. 37 (1983) 207
 Zhang, Y.F., see Liu, W.K. 48 (1985) 245
 Zhang, Y.F., see Liu, W.K. 93 (1991) 189
 Zheng Y., see Lewis, R.W. 94 (1992) 63
 Zheng, Y.W., see Luo, S.J. 27 (1981) 129
 Zhong, W., see Qian, L.x. 30 (1982) 209
 Zhou, M., see Rozvany, G.I.N. 89 (1991) 281
 Zhu, F., see Zhou, X. 37 (1983) 277
 Zhu, F.-W., see Cheng, W.-Q. 71 (1988) 31
 Zhu, J.Z., see Zienkiewicz, O.C. 82 (1990) 95
 Zhu, P., see Zhang, W. 96 (1992) 351
 Ziad Saghir, M., see Tabarrok, B. 43 (1984) 81
 Zienkiewicz, O.C., see Löhner, R. 45 (1984) 313
 Zienkiewicz, O.C., see Löhner, R. 51 (1985) 441
 Zienkiewicz, O.C., see Lee, J.H.W. 61 (1987) 359
 Zimmerman, T.K., see Hughes, T.J.R. 29 (1981) 329
 Zimmermann, T., see Dubois-Pélérin, Y. 98 (1992) 361
 Zinser, W., see Benim, A.C. 51 (1985) 507
 Zinser, W., see Benim, A.C. 57 (1986) 223
 Zolésio, J.-P., see Delfour, M. 50 (1985) 231
 Zuchowizkii, S., see Bogomolnii, A. 15 (1978) 149

List of Special Issues of Volumes 1-100

FENOMECH '78, Proceedings of the International Conference on Finite Elements in Nonlinear Mechanics	Volumes 17-18
FENOMECH '81, Proceedings of the 2nd International Conference on Finite Elements in Nonlinear Mechanics	Volumes 32-34
Optimal Finite Elements Methods for Fluid Dynamics and Nonsymmetric Operator Problems	Volume 45
Oil Reservoir Simulation	Volume 47, Nos. 1-2
FENOMECH '84, Proceedings of the 3rd International Conference on Finite Elements in Nonlinear Mechanics	Volumes 51-52
Adaptive Methods	Volume 55, Nos. 1-2
Proceedings of the First World Congress on Computational Mechanics	Volume 64
Proceedings of the Eighth International Conference on Computing Methods in Applied Sciences and Engineering	Volume 75
Spectral and High Order Methods for Partial Differential Equation, Proceedings of the ICOSAHOM'89 Conference	Volume 80
Reliability in Computational Mechanics, Proceedings of the Workshop on Reliability in Computational Mechanics	Volume 82
Symposium on Recent Developments in Large-scale Computational Fluid Dynamics	Volume 87
Selected Papers from the Second World Congress on Computational Mechanics	Volumes 89-91

M

L

O

2

2

I

MECHANICS OF MATERIALS

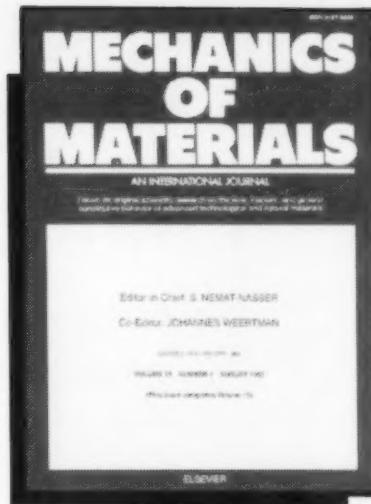
An International Journal

Editor-in-Chief: S. NEMAT-NASSER,
*University of California, San Diego, CA,
USA*

Co-editor: J. WEERTMAN,
*The Technological Institute, Northwestern
University, Evanston, IL, USA*

The journal is a forum for original scientific research on the flow, fracture, and general constitutive behaviour of advanced technological and natural materials, with balanced coverage of theoretical, experimental, and field investigations. Original contributions are published on the thermomechanical behaviour of technological materials such as metals, polymers, ceramics, various advanced composites, wood, etc. Geotechnical materials such as rock and soil, and thermomechanical processes pertaining to solid earth geophysics are also included.

Audience:
Materials scientists, civil engineers,
fracture mechanics.



Abstracted/Indexd In:
Applied Mechanics Review, Boundary
Elements Abstracts, Cambridge Scientific
Abstracts, Current Contents, Engineering
Index, Geotechnical Abstracts, INSPEC,
Metals Abstracts, Physics Briefs/
Physikalische Berichte, Science Citation
Index, World Aluminum Abstracts

Subscription Information:
1993: Volumes 15 & 16 (8 issues)
Price: US\$ 485.50 / Dfl. 806.00,
including postage and handling,
ISSN 0167-6636

*The Dutch Guilder (Dfl.) price is definitive.
US \$ price is subject to exchange rate fluctuations.*

MECHANICS OF MATERIALS

Please send me a free sample copy
 Please enter my subscription for 1993 and send me an invoice

Name: _____

Address: _____



Send this coupon or a photocopy to:

ELSEVIER SCIENCE PUBLISHERS

P.O. Box 1991, 1000 BZ Amsterdam, The Netherlands
P.O. Box 945, Madison Square Station, New York, NY 10160-0757

Numerical Methods for Problems in Infinite Domains

by D. Givoli, Israel Institute of Technology, Haifa, Israel

Studies in Applied Mechanics Volume 33

This volume reviews and discusses the main numerical methods used today for solving problems in infinite domains. It also presents in detail one very effective method in this class, namely the Dirichlet-to-Neumann (DtN) finite element method.

The book is intended to provide the researcher or engineer with the state-of-the-art in numerical solution methods for infinite domain problems, such as the problems encountered in acoustics and structural acoustics, fluid dynamics, meteorology, and many other fields of application.

The emphasis is on the fundamentals of the various methods, and on reporting recent progress and forecasting future directions.

An appendix at the end of the book provides an introduction to the essentials of the finite element method, and suggests a short list of texts on the subject which are categorized by their level of mathematics.

Contents:

Part I.

1. Introduction and overview.
2. Boundary integral and boundary element methods.
3. Artificial boundary conditions and NRBCs.
4. Local non-reflecting boundary conditions.
5. Nonlocal non-reflecting boundary conditions.
6. Special numerical

procedures for unbounded and large domains.

Part II.

7. The DtN method.
8. Computational aspects of the DtN method.
9. Application of the DtN method to beam and shell problems.
10. The DtN method for time-harmonic waves.
11. The DtN method for time dependent problems.

Appendix: The finite element method. References. Index.

1992 xvi + 300 pages
Price: US \$ 162.50 / Dfl. 260.00
ISBN 0-444-88820-9



ELSEVIER
SCIENCE PUBLISHERS

Elsevier Science Publishers
P.O. Box 1991, 1000 BZ Amsterdam
The Netherlands
in the USA/Canada:
Attn: Judy Weislogel, P.O. Box 945
Madison Square Station
New York, NY 10160-0757

*The Dutch Guilder (Dfl.) price is definitive.
US\$ price is subject to exchange rate fluctuations.*

INFORMATION FOR CONTRIBUTORS

Manuscripts should be sent in triplicate to one of the Editors. All manuscripts will be refereed. Manuscripts should preferably be in English. They should be typewritten, double-spaced, first copies (or clear Xerox copies thereof) with a wide margin. Abstracts, footnotes and lists of references should also be double-spaced. All pages should be numbered (also those containing references, tables and figure captions). Upon acceptance of an article, author(s) will be asked to transfer copyright of the article to the publisher. This transfer will ensure the widest possible dissemination of information.

Abstracts

The text of a paper should be preceded by a summary in English. This should be short, but should mention all essential points of the paper.

Figures and tables

The drawings for the figures must be originals, drawn in black India ink in large size and carefully lettered, or printed on a high-quality laser printer. The lettering as well as the details should have proportionate dimensions, so as not to become illegible or unclear after the usual reduction by the printers; in general, the figures should be designed for a reduction factor of two or three. Mathematical symbols should be entered in italics, where appropriate. Each figure should have a number and a caption; the captions should be collected on a separate sheet. The appropriate place of a figure should be indicated in the margin. Tables should be typed on separate sheets. Each table should have a number and a title. The appropriate places for the insertion of tables should be indicated in the margin. Colour illustrations can be included and will be printed in colour at no charge if, in the opinion of the Editors, the colour is essential. If this is not the case, the figures will be printed in black and white unless the author is prepared to pay the extra costs arising from colour reproduction.

Formulae

Displayed formulae should be numbered and typed or clearly written by hand. Symbols should be identified in the margin, where they occur for the first time.

References

In the text, reference to other parts of the paper should be made by section (or equation) number, but not by page number. References should be listed on a separate sheet in the order in which they appear in the text.

COMPLETE INSTRUCTIONS TO AUTHORS are published in every issue, and copies can also be obtained from the Editors and the Publisher, Elsevier Science Publishers B.V., P.O. Box 1991, 1000 BZ Amsterdam, The Netherlands.

INFORMATION FOR SUBSCRIBERS

COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING (ISSN 0045-7825) is published in nine volumes (27 issues) a year. The subscription price for 1993 (Volumes 99-107) is SFrs. 3330 + SFrs. 297 p.p.h. = SFrs. 3627 (approximately US\$ 2539). Our p.p.h. (postage, packing and handling) charge includes surface delivery of all issues, except to subscribers in the following countries where air delivery (S.A.L. - Surface Air Lifted) is ensured: Argentina, Australia, Brazil, Canada, Hong Kong, India, Israel, Japan (+25% normal p.p.h.), Malaysia, Mexico, New Zealand, Pakistan, P.R. China, Singapore, South Africa, South Korea, Taiwan, Thailand, USA. For the rest of the world airmail charges are available upon request. Claims for missing issues will be honoured free of charge within six months after the publication date of issues. Mail orders and inquiries to: Elsevier Sequoia S.A., P.O. Box 564, CH-1001 Lausanne 1, Switzerland.

INFORMATION FOR ADVERTISERS

Advertising orders and inquiries can be sent to the Advertising Manager, Elsevier Science Publishers B.V., Journal Division, P.O. Box 211, 1000 AE Amsterdam, The Netherlands.

Special regulations for authors

Upon acceptance of an article by the journal, the author(s) will be asked to transfer copyright of the article to the publisher. This transfer will ensure the widest possible dissemination of information.

Special regulations for readers in the USA

This journal has been registered with the Copyright Clearance Center, Inc. Consent is given for copying of articles for personal or internal use, or for the personal use of specific clients. This consent is given on the condition that the copier pays through the Center the per-copy fee stated in the code on the first page of each article for copying beyond that permitted by Sections 107 or 108 of the U.S. Copyright Law. The appropriate fee should be forwarded with a copy of the first page of the article to the Copyright Clearance Center, Inc., 27 Congress Street, Salem, MA 01970, USA. If no code appears in an article, the author has not given broad consent to copy and permission to copy must be obtained directly from the author. All articles published prior to 1981 may be copied for a per-copy fee of US \$2.25, also payable through the Center. This consent does not extend to other kinds of copying, such as for general distribution, resale, advertising and promotion purposes, or for creating new collective works. Special written permission must be obtained from the publisher for such copying.

COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING

*(Articles are abstracted/indexed in: ACM Computing Reviews, Applied Mechanics Reviews,
Boundary Element Abstracts, Computer Abstracts, Current Contents, Engineering Index, ERDA Abstracts,
INSPEC, Mathematical Reviews, Newsletter Engineering Analysis Software)*

Cumulative Index of Volumes 1-100

CONTENTS

Preamble	1
Cumulative Author Index of Volumes 1-100	7
Cumulative Co-author Index of Volumes 1-100	91
List of Special Issues of Volumes 1-100	113



0045-7825(199303)01:100*;1-9

